Circular Economy Ontology Network (CEON) - Statement Module

Metadata

IRI

http://w3id.org/CEON/ontology/statement/

Title

Circular Economy Ontology Network (CEON) - Statement Module

Publisher

Onto-DESIDE

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Version Iri

http://w3id.org/CEON/ontology/statement/0.2/

Version Info

0.2

Prior Version

0.1

Preferred Namespace Prefix

ceon-statement

Preferred Namespace Uri

http://w3id.org/CEON/ontology/statement/

Description

A module to represent statements of CEON resources.

Classes

Quantity Interval^C

In Range Of

 $\underline{has Chemical Substance Threshold Used By Manufacturer}^{op}$

 $\underline{hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix}^{op}$

 $\frac{hasMassFractionForDemounting}{hasMassFractionForDisassembly}{}^{op}$

 $\underline{hasMassFractionOfAllDisclosedChemicalSubstance}^{op}$

 $\underline{hasMassFractionOfDismantableComponentsForReuseAndRecycle}^{op}$

 $\underline{has MassFraction Of PostConsumer Recycled Materials Out Of The Total Product Mas}$

sop

 $\underline{has Mass Fraction Of PreConsumer Recycled Materials Out Of The Total Product Mass}$

оp

 $\underline{hasMassFractionOfProductDesignedForRecyclingToOriginalInput}^{op}$

 $\underline{hasMassFractionOfProductReleasedIntoEnvironment}^{op}$

 $\frac{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}{}^{op}$

 $\frac{hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}}{hasPostConsumerRecycledMaterialCompositionThreshold^{op}} \\ \frac{hasPreConsumerRecycledMaterialCompositionThreshold^{op}}{hasPreConsumerRecycledMaterialCompositionThreshold^{op}} \\ \frac{hasPreConsumerRecycledMaterialComposi$

<u>hasQuantityInterval</u>op

 $\underline{has Volume Fraction Of Reduction Of Direct Water Consumption Used In Production}^{op}$

 $\underline{has Volume Fraction Of Reused Or Recirculated Water Used In Production}^{op}$

Named Individuals

<u>0ge-0leⁿⁱ</u>

<u>0gt-0.001le</u>ⁿⁱ

<u>0gt-0.01le</u>ⁿⁱ

0gt-0.1leni

<u>0gt-10le ni</u>

0.1ge-0.1leⁿⁱ

<u>1geⁿⁱ</u>

10gt-25leni

25gt-50leni

50gt-75leⁿⁱ

75gt-95leni

<u>95gt-99leⁿⁱ</u>

99gt-100leⁿⁱ

Availability ^C

In Range Of has Availability op

Named Individuals

<u>public</u>ⁿⁱ

<u>secrectAgreement</u>ⁿⁱ

Demounting Statement ^c

IRI http://w3id.org/CEON/ontology/statement/DemountingStatemen

t

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionForDemounting op

 ${\color{red} {\bf Super Class \ Of} \\ \underline{ {\color{blue} {\sf MFOfProductDesignedCleanlyRemovedFromFixedAssemblyAvailabilityStateme} } \\ \underline{ {\color{blue} {\sf MFOfProductDesignedCleanlyRemovedFromFixedAssemb$

nt^c

 $\underline{\mathsf{MFOfProductDesignedCleanlyRemovedFromFixedAssemblyStatement}^{\mathtt{C}}}$

Disassembly Statement^C

nt

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionForDisassemblyop

Super Class Of MFOfProductDesignedCleanlyRemovedFromProductAssemblyAvailabilityState

<u>ment^c</u>

MFOfProductDesignedCleanlyRemovedFromProductAssemblyStatement^C

Disclosed Chemical Subtance Statement^c

ubtanceStatement

Sub Class Of <u>ProductCompositionStatement</u>^C

 $\frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ \textit{value} \\ \\ \frac{0\text{gt-}0.001\text{le}^{\texttt{c}}}{or} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ \textit{value} \\ \frac{0\text{gt-}0.01\text{le}^{\texttt{c}}}{or} \\ \frac{or}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ \frac{or}{hasChemicalSubstanceThresholdUsedByManufacturer^{$

hasChemicalSubstanceThresholdUsedByManufacturer op value 1geC

Dismantling Statement^c

nt

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionOfDismantableComponentsForReuseAndRecycle op

Super Class Of

MFOfDismantlableComponentForReuseRecycledAvailabilityStatement^C

MFOfDismantlableComponentForReuseRecycledStatement^C

Fraction Of Renewable Energy Availability Statement^c

IRI http://w3id.org/CEON/ontology/statement/FractionOfRenewabl

eEnergyAvailabilityStatement

Sub Class Of RenewableEnergyStatement^C

Fraction Of Renewable Energy Statement^c

IRI http://w3id.org/CEON/ontology/statement/FractionOfRenewabl

eEnergyStatement

Sub Class Of

RenewableEnergyStatement^C

 $\underline{hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix}^{op}\ value$

<u>10gt-25le^c or</u>

 $\underline{hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix}^{op}\ value$

75qt-95le^c or

hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix^{op} value

50gt-75le^c or

<u>hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix</u>op value

Ogt-10le^c or

<u>hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix</u>^{op} value

99qt-100le^c or

<u>hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix</u>^{op} value

Oge-Ole c or

 $\underline{hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix}^{op}\ value$

25gt-50le^c or

 $\underline{hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix}^{op}\ value$

95gt-99le^C

Hazardous Substance Declaration Availability Statement^c

IRI http://w3id.org/CEON/ontology/statement/HazardousSubstance

DeclarationAvailabiltityStatement

Sub Class Of ProductCompositionStatement^C

Hazardous Substance Statement^C

IRI http://w3id.org/CEON/ontology/statement/HazardousSubstance

Statement

Sub Class Of ProductCompositionStatement^C

Mf Of Dismantlable Component For Reuse Recycled Availability Statement C

IRI http://w3id.org/CEON/ontology/statement/MFOfDismantlableCo

mponent For Reuse Recycled Availability Statement

Sub Class Of Dismantling Statement C

Mf Of Dismantlable Component For Reuse Recycled Statement^C

mponentForReuseRecycledStatement

Sub Class Of

<u>DismantlingStatement</u>^c

<u>hasMassFractionOfDismantableComponentsForReuseAndRecycle</u> op value <u>0gt-10le</u> or <u>hasMassFractionOfDismantableComponentsForReuseAndRecycle</u> op

value 50gt-75le^c or

 $\underline{hasMassFractionOfDismantableComponentsForReuseAndRecycle}^{op}\ value$

75gt-95le^c or

 $\underline{hasMassFractionOfDismantableComponentsForReuseAndRecycle}^{op}\ value$

95gt-99le^c or

 $\underline{hasMassFractionOfDismantableComponentsForReuseAndRecycle}^{op}\ value$

99gt-100le^c or

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value

25gt-50le^c or

 $\frac{hasMassFractionOfDismantableComponentsForReuseAndRecycle}{0ge-0le^{\texttt{C}}\ or\ hasMassFractionOfDismantableComponentsForReuseAndRecycle}$

^{op} value <u>10gt-25le</u>^c

Mf Of Post Consumer Recycled Material Content Availability Statement C

IRI http://w3id.org/CEON/ontology/statement/MFOfPostConsumerRe

cycledMaterialContentAvailabilityStatement

Sub Class Of RecycledMaterialStatement^C

Mf Of Post Consumer Recycled Material Content Statement^C

 ${\tt cycledMaterialContentStatement}$

Sub Class Of

RecycledMaterialStatement^c

 $\underline{has MassFraction Of PostConsumer Recycled Materials Out Of The Total Product Mas}$

s^{op} value <u>95gt-99le</u>^c or

 $\underline{has MassFraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of PostConsumer Recycled$

s^{op} value <u>75gt-95le</u>c or

 $\underline{has MassFraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Out Of The Total P$

sop value 10gt-25lec or

hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas

s^{op} value <u>25gt-50le^c or</u>

 $\underline{has MassFraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Of PostConsumer Recycled Materials Out Of The Total Product Masser Fraction Out Of The T$

s^{op} value <u>50gt-75le^c</u> or

 $\underline{has MassFraction Of PostConsumer Recycled Materials Out Of The Total Product Mass}$

s^{op} value <u>99gt-100le</u>c or

 $\underline{has MassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas}$

<u>s^{op} value <u>0ge-0le</u>^c or</u>

 $\underline{has MassFraction Of PostConsumer Recycled Materials Out Of The Total Product Mas}$

s^{op} value <u>0gt-10le</u>^c

Mf Of Pre Consumer Recycled Material Content Availability Statement ^c

 $y cled {\tt MaterialContentAvailabilityStatement}$

Sub Class Of RecycledMaterialStatement^C

Mf Of Pre Consumer Recycled Material Content Statement^c

ycledMaterialContentStatement

Sub Class Of

RecycledMaterialStatement^c

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

op value <u>25gt-50le</u>c or

hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass

op value 99gt-100le^c or

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

op value <u>0ge-0le</u>c or

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

op value <u>95gt-99le</u>c or

 $\underline{\underline{has MassFraction Of Pre Consumer Recycled Materials Out Of The Total Product Mass}}$

op value <u>75gt-95le c</u> or

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

^{op} value <u>0gt-10le ^c</u> or

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

op value <u>50gt-75le c</u> or

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

op value 10gt-25le^c

Mf Of Product Designed Cleanly Removed From Fixed Assembly Availability Statement^c

 ${\tt dCleanlyRemovedFromFixedAssemblyAvailabilityStatement}$

Sub Class Of DemountingStatement^C

Mf Of Product Designed Cleanly Removed From Fixed Assembly Statement ^C

 ${\tt dCleanlyRemovedFromFixedAssemblyStatement}$

Sub Class Of

<u>DemountingStatement</u>^C

hasMassFractionForDemounting op value 25gt-50le or hasMassFractionForDemounting op value 10gt-25le or hasMassFractionForDemounting op value 0gt-10le or hasMassFractionForDemounting op value 50gt-75le or hasMassFractionForDemounting op value 95gt-99le or hasMassFractionForDemounting op value 75gt-95le or hasMassFractionForDemounting op value 75gt-95le or

hasMassFractionForDemounting op value 99gt-100le or hasMassFractionForDemounting op value 0ge-0le or

Mf Of Product Designed Cleanly Removed From Product Assembly Availability Statement^c

IRI http://w3id.org/CEON/ontology/statement/MFOfProductDesigne

 ${\tt dCleanlyRemovedFromProductAssemblyAvailabilityStatement}$

Sub Class Of <u>DisassemblyStatement</u>^C

Mf Of Product Designed Cleanly Removed From Product Assembly Statement^C

IRI http://w3id.org/CEON/ontology/statement/MFOfProductDesigne

dCleanlyRemovedFromProductAssemblyStatement

Sub Class Of

<u>DisassemblyStatement</u>^C

hasMassFractionForDisassembly op value Oge-Ole or hasMassFractionForDisassembly op value 50gt-75le or hasMassFractionForDisassembly op value Ogt-10le or hasMassFractionForDisassembly op value 75gt-95le or hasMassFractionForDisassembly op value 95gt-99le or hasMassFractionForDisassembly op value 25gt-50le or hasMassFractionForDisassembly op value 99gt-100le or hasMassFractionForDisassembly op value 10gt-25le or hasMassFractionForDisassembly op value 10gt-25le or hasMassFractionForDisassembly op value 10gt-25le

Mf Of Product Recycling At Similar Level Availability Statement C

ngAtSimilarLevelAvailabilityStatement

Sub Class Of RecyclingStatement^C

Mf Of Product Recycling At Similar Level Statement^C

ngAtSimilarLevelStatement

Sub Class Of

RecyclingStatement^c

 $\frac{hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op}}{10le^{c}} or \frac{or}{hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op}}{value} \frac{oge-Ole^{c}}{or} or$

 $\frac{hasMassFractionOfProductDesignedForRecyclingToOriginalInput}{75le^{c}} or \frac{hasMassFractionOfProductDesignedForRecyclingToOriginalInput}{100} or \frac{hasMassFractionOfProductDesignedForProduct$

value 25gt-50le^c or

hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op} value <u>95gt-99le</u> or hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op}

value 10gt-25le^c or

 $\frac{hasMassFractionOfProductDesignedForRecyclingToOriginalInput}{100 le^{\texttt{c}}} \textit{ or } \frac{hasMassFractionOfProductDesignedForRecyclingToOriginalInput}{100 le^{\texttt{c}}}$

value 75gt-95le^c

Mf Of Product Released To Environment Availablity Statement^C

dToEnvironmentAvailablityStatement

Sub Class Of ReleasedIntoEnvironmentStatement^C

Mf Of Product Released To Environment Statement C

IRI http://w3id.org/CEON/ontology/statement/MFOfProductRelease

dToEnvironmentStatement

Sub Class Of

ReleasedIntoEnvironmentStatement^c

hasMassFractionOfProductReleasedIntoEnvironment^{op} value 75gt-95le^c or hasMassFractionOfProductReleasedIntoEnvironment^{op} value 95gt-99le^c or hasMassFractionOfProductReleasedIntoEnvironment^{op} value 99gt-100le^c or hasMassFractionOfProductReleasedIntoEnvironment^{op} value 0ge-0le^c or hasMassFractionOfProductReleasedIntoEnvironment^{op} value 0gt-10le^c or hasMassFractionOfProductReleasedIntoEnvironment^{op} value 25gt-50le^c or hasMassFractionOfProductReleasedIntoEnvironment^{op} value 10gt-25le^c or hasMassFractionOfProductReleasedIntoEnvironment^{op} value 50gt-75le^c

Mf Of Recycled Material Content Availability Statement C

alContentAvailabilityStatement

Sub Class Of RecycledMaterialStatement^C

Mf Of Renewable Material Availability Statement^C

IRI http://w3id.org/CEON/ontology/statement/MFOfRenewableMater

 $\verb|ialAvailabil| ity Statement|$

Sub Class Of SustainablyProducedRenewableMaterialStatement^C

Mf Of Reused Part Availability Statement^C

labilityStatement

Sub Class Of ReusedContentStatement^C

Mass Fraction Of Disclosed Chemical Substance Statement^C

IRI http://w3id.org/CEON/ontology/statement/MassFractionOfDisc

losedChemicalSubstanceStatement

Sub Class Of

ProductCompositionStatement ^C

hasMassFractionOfAllDisclosedChemicalSubstance op value 75gt-95le or hasMassFractionOfAllDisclosedChemicalSubstance op value 0gt-10le or hasMassFractionOfAllDisclosedChemicalSubstance op value 10gt-25le or hasMassFractionOfAllDisclosedChemicalSubstance op value 95gt-99le or hasMassFractionOfAllDisclosedChemicalSubstance op value 25gt-50le or hasMassFractionOfAllDisclosedChemicalSubstance op value 99gt-100le or hasMassFractionOfAllDisclosedChemicalSubstance op value 50gt-75le or hasMassFractionOfAllDisclosedChemicalSubstance op value 50gt-75le or hasMassFractionOfAllDisclosedChemicalSubstance op value 0ge-0le op value 0g

Mass Fraction Of Recycled Material Statement^c

cledMaterialStatement

Sub Class Of

RecycledMaterialStatement^c

 $\frac{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{75le^{c}} or \\ \frac{50gt}{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{op}$

value 10gt-25le^c or

 $\frac{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{op} \ value \ \underline{0ge-0le}{}^{c} \ or \ \underline{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{}^{op}$

value 99gt-100le^c or

 $\frac{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{op} \ value \ \frac{75gt-}{95le} \ or \ \frac{c}{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass} \ op}{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass} \ op}$

value <u>0gt-10le^c or</u>

 $\frac{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{50le}^{op} \ value \ \underline{^{5}Ole}^{c} \ or \ \underline{^{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}}^{op}$

value 95gt-99le^c

Mass Fraction Of Renewable Material Statement^C

IRI http://w3id.org/CEON/ontology/statement/MassFractionOfRene

wableMaterialStatement

Sub Class Of

<u>SustainablyProducedRenewableMaterialStatement</u>^C

 $\underline{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}^{op}\, \\ \textbf{value}$

95gt-99le^c or

 $\underline{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}^{op}\ value$

75gt-95le^c or

 $\underline{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}^{op} \\ \textbf{value}$

10gt-25le^c or

 $\underline{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}^{op}\ value$

25qt-50le^c or

 $\underline{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}^{op} \ value$

99at-100le^c or

hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass^{op} value Oge-Ole^c or hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass

op value <u>50gt-75le c</u> or

 $\underline{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}^{op} \\ \textbf{value}$

0gt-10le^C

Mass Fraction Of Reused Part Statement C

IRI http://w3id.org/CEON/ontology/statement/MassFractionOfReus

edPartStatement

Sub Class Of

ReusedContentStatement^C

hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value <u>0ge-0le^c</u> or <u>hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}</u> value <u>50gt-75le^c</u> or <u>hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}</u> value <u>99gt-100le^c</u> or <u>hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}</u> value <u>10gt-25le^c</u> or <u>hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}</u> value <u>25gt-50le^c</u> or <u>hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}</u> value <u>25gt-50le^c</u> or <u>hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}</u> value <u>25gt-50le^c</u> or <u>hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}</u> value <u>95gt-50le^c</u> or <u>hasMassFractionOfReusedPartsOutOfTheTotalProduct</u> or <u>hasMassFractionOfTheTotalProduct</u> or <u>hasMassFractio</u>

hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value <u>95gt-99le^c</u> or hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 75gt-95le^c or

hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 0gt-10le^c

Pc Availability Statement ^c

IRI http://w3id.org/CEON/ontology/statement/PCAvailabilityStat

ement

Sub Class Of ProductCompositionStatement^C

Pcds Statement^C

IRI http://w3id.org/CEON/ontology/statement/PCDSStatement

Sub Class Of Statement^C

Super Class Of

<u>DemountingStatement^C</u> <u>DisassemblyStatement</u>^C <u>DismantlingStatement</u>^c <u>ProductCompositionStatement^C</u>

RecycledMaterialStatement^C RecyclingStatement^C

ReleasedIntoEnvironmentStatement^C RenewableEnergyStatement^C ReusedContentStatement^C

<u>SustainablyProducedRenewableMaterialStatement</u>^C

WaterReuseOrRecirculationStatement^C

Post Consumer Recycled Material Composition Availability Statement ^C

IRI http://w3id.org/CEON/ontology/statement/PostConsumerRecycl

edMaterialCompositionAvailabilityStatement

Sub Class Of RecycledMaterialStatement^C

Post Consumer Recycled Material Composition Statement^C

IRI http://w3id.org/CEON/ontology/statement/PostConsumerRecycl

edMaterialCompositionStatement

Sub Class Of RecycledMaterialStatement^C

Restriction $\underline{hasPostConsumerRecycledMaterialCompositionThreshold}^{op}\ value$

PostConsumerRecycledMaterialCompositionStatement^C

Pre Consumer Recycled Material Composition Availability Statement C

http://w3id.org/CEON/ontology/statement/PreConsumerRecycle IRI

dMaterial Composition Availability Statement

Sub Class Of RecycledMaterialStatement^C Pre Consumer Recycled Material Composition Statement^C

IRI http://w3id.org/CEON/ontology/statement/PreConsumerRecycle

dMaterialCompositionStatement

Sub Class Of RecycledMaterialStatement^C

Restriction <u>hasPreConsumerRecycledMaterialCompositionThreshold</u> value

<u>PreConsumerRecycledMaterialCompositionStatement</u>^C

Product Composition Certification Statement^C

IRI http://w3id.org/CEON/ontology/statement/ProductComposition

CertificationStatement

Sub Class Of ProductCompositionStatement^C

Product Composition Statement^C

IRI http://w3id.org/CEON/ontology/statement/ProductComposition

Statement

Sub Class Of PCDSStatement^C

In Domain Of

hasChemicalSubstanceThresholdUsedByManufacturer^{op} hasMassFractionOfAllDisclosedChemicalSubstance^{op}

Super Class Of

<u>DisclosedChemicalSubtanceStatement</u>^C

<u>HazardousSubstanceDeclarationAvailabilitiyStatement</u>^C

HazardousSubstanceStatement^c

 $\underline{\mathsf{MassFractionOfDisclosedChemicalSubstanceStatement}^{\textbf{C}}}$

PCAvailabilityStatement ^C

 $\frac{Product Composition Certification Statement^{C}}{Product Composition Validation Statement^{C}}$

Product Composition Validation Statement ^C

ValidationStatement

Sub Class Of ProductCompositionStatement^C

Recycled Material Statement^c

IRI http://w3id.org/CEON/ontology/statement/RecycledMaterialSt

atement

Sub Class Of PCDSStatement^C

In Domain Of

 $\underline{has MassFraction Of PostConsumer Recycled Materials Out Of The Total Product Mas}$

sop

 $\underline{has MassFraction Of PreConsumer Recycled Materials Out Of The Total Product Mass}$

op

 $\frac{hasMassFractionOfRecycledMaterialSOutOfTheTotalProductMass}{hasPostConsumerRecycledMaterialCompositionThreshold}{}^{op}\\ \frac{hasPreConsumerRecycledMaterialCompositionThreshold}{}^{op}$

Super Class Of

 $\underline{\mathsf{MFOfPostConsumerRecycledMaterialContentAvailabilityStatement}^{\mathtt{C}}$

MFOfPostConsumerRecycledMaterialContentStatement^C

MFOfPreConsumerRecycledMaterialContentAvailabilityStatement^C

 $\frac{MFOfPreConsumerRecycledMaterialContentStatement^{\complement}}{MFOfRecycledMaterialContentAvailabilityStatement^{\complement}}\\ \frac{MassFractionOfRecycledMaterialStatement^{\complement}}{MassFractionOfRecycledMaterialStatement^{\complement}}$

PostConsumerRecycledMaterialCompositionAvailabilityStatement^C

PostConsumerRecycledMaterialCompositionStatement^C

PreConsumerRecycledMaterialCompositionAvailabilityStatement^C

PreConsumerRecycledMaterialCompositionStatement^C

Recycling Statement^C

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op}

Super Class Of

MFOfProductRecyclingAtSimilarLevelAvailabilityStatement^C

MFOfProductRecyclingAtSimilarLevelStatement^C

Released Into Environment Statement^C

nmentStatement

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionOfProductReleasedIntoEnvironment^{op}

Super Class Of

MFOfProductReleasedToEnvironmentAvailablityStatement^C

MFOfProductReleasedToEnvironmentStatement ^C

Renewable Energy Statement^C

IRI http://w3id.org/CEON/ontology/statement/RenewableEnergySta

tement

Sub Class Of PCDSStatement^C

In Domain Of hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix op

Super Class Of

<u>FractionOfRenewableEnergyAvailabilityStatement</u>^C

<u>FractionOfRenewableEnergyStatement</u>^c

Reused Content Statement^C

ment

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}

Super Class Of MFOfReusedPartAvailabilityStatement^C

<u>MassFractionOfReusedPartStatement</u>^C

Statement^C

Sub Class Of Entity^C

In Domain Of

statement/About op statement/Value dp

Super Class Of PCDSStatement^C

Sustainably Produced Renewable Material Statement^c

dRenewableMaterialStatement

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass^{op}

Super Class Of

MFOfRenewableMaterialAvailabilityStatement^C
MassFractionOfRenewableMaterialStatement^C

Vf Of Reduction Direct Water Availability Statement C

tWaterAvailabilityStatement

Sub Class Of WaterReuseOrRecirculationStatement^C

Vf Of Reduction Direct Water Statement c

tWaterStatement

Sub Class Of

WaterReuseOrRecirculationStatement^c

 $\underline{has Volume Fraction Of Reduction Of Direct Water Consumption Used In Production}^{op}$

value <u>75gt-95le</u>^c or

 $\underline{has Volume Fraction Of Reduction Of Direct Water Consumption Used In Production}^{op}$

value 10gt-25le c or

 $\underline{has Volume Fraction Of Reduction Of Direct Water Consumption Used In Production}^{op}$

value 95gt-99le^c or

 $\underline{has Volume Fraction Of Reduction Of Direct Water Consumption Used In Production}^{op}$

value 0gt-10le^c or

 $has Volume Fraction Of Reduction Of Direct Water Consumption Used In Production \\ ^{op}$

value 25qt-50le^c or

 $\underline{has Volume Fraction Of Reduction Of Direct Water Consumption Used In Production}^{op}$

value 50gt-75le^c or

 $\underline{has Volume Fraction Of Reduction Of Direct Water Consumption Used In Production}^{op}$

value <u>0ge-0le^c or</u>

 $\underline{hasVolumeFractionOfReductionOfDirectWaterConsumptionUsedInProduction}^{op}$

value 99gt-100le^c

Vf Of Reused Recirculated Water Availability Statement C

IRI http://w3id.org/CEON/ontology/statement/VFOfReusedRecircul

atedWaterAvailabilityStatement

Sub Class Of WaterReuseOrRecirculationStatement^C

Vf Of Reused Recirculated Water Statement C

http://w3id.org/CEON/ontology/statement/VFOfReusedRecircul

atedWaterStatement

Sub Class Of

<u>WaterReuseOrRecirculationStatement</u>^c

hasVolumeFractionOfReusedOrRecirculatedWaterUsedInProduction^{op} value

75gt-95le^c or

 $\underline{\text{hasVolumeFractionOfReusedOrRecirculatedWaterUsedInProduction}}^{op} \ \text{value}$

50gt-75le^c or

 $\underline{has Volume Fraction Of Reused Or Recirculated Water Used In \underline{Production}^{op} \ value}$

25gt-50le^c or

 $\underline{has Volume Fraction Of Reused Or Recirculated Water Used In Production}^{op} \ value$

Ogt-10le c or

 $\underline{hasVolumeFractionOfReusedOrRecirculatedWaterUsedInProduction}^{op}\ value$

99gt-100le^c or

 $\underline{has Volume Fraction Of Reused Or Recirculated Water Used In Production}^{op} \ value$

10gt-25le^c or

 $\underline{has Volume Fraction Of Reused Or Recirculated Water Used In Production}^{op} \ value$

95qt-99le^c or

hasVolumeFractionOfReusedOrRecirculatedWaterUsedInProduction^{op} value

Oge-Ole^c

Validation ^c

IRI http://w3id.org/CEON/ontology/statement/Validation

In Range Of has Validation op

Named Individuals

certifiedⁿⁱ

validatedByThirdPartyⁿⁱ

Water Reuse Or Recirculation Statement^c

ulationStatement

Sub Class Of PCDSStatement^C

In Domain Of

 $\underline{has Volume Fraction Of Reduction Of Direct Water Consumption Used In Production}^{op}$

 $\underline{has Volume Fraction Of Reused Or Recirculated Water Used In Production}^{op}$

Super Class Of

VFOfReductionDirectWaterAvailabilityStatement^C

VFOfReductionDirectWaterStatement^C

<u>VFOfReusedRecirculatedWaterAvailabilityStatement</u>^C

VFOfReusedRecirculatedWaterStatement^C

Entity ^C

IRI http://www.w3.org/ns/prov#Entity

Super Class Of resourceODP:Resource

<u>Statement</u>^C

Role^c

Super Class Of http://w3id.org/CEON/ontology/actorODP/Role

Object Properties

has availability op

Range <u>Availability</u>^C

has chemical substance threshold used by manufacturer op

IRI http://w3id.org/CEON/ontology/statement/hasChemicalSubstan

ceThresholdUsedByManufacturer

Sub Property Of hasQuantityInterval op

Domain ProductCompositionStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has fraction of renewable energy out of the total production energy mix op

able Energy Out Of The Total Production Energy Mix

Sub Property Of hasQuantityInterval op

Domain RenewableEnergyStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has mass fraction for demounting op

IRI http://w3id.org/CEON/ontology/statement/hasMassFractionFor

Demounting

Sub Property Of hasQuantityInterval op

DemountingStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has mass fraction for disassembly op

IRI http://w3id.org/CEON/ontology/statement/hasMassFractionFor

Disassembly

Sub Property Of hasQuantityInterval op

DisassemblyStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has mass fraction of all disclosed chemical substance op

llDisclosedChemicalSubstance

Sub Property Of hasQuantityInterval op

Domain ProductCompositionStatement^C

has mass fraction of dismantable components for reuse and recycle op

IRI http://w3id.org/CEON/ontology/statement/hasMassFractionOfD

ismantableComponentsForReuseAndRecycle

Sub Property Of <u>hasQuantityInterval</u>op

DismantlingStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has mass fraction of post consumer recycled materials out of the total product mass

ор

IRI http://w3id.org/CEON/ontology/statement/hasMassFractionOfP

ost Consumer Recycled Materials Out Of The Total Product Mass

Sub Property Of hasQuantityInterval op

Domain RecycledMaterialStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has mass fraction of pre consumer recycled materials out of the total product mass op

IRI http://w3id.org/CEON/ontology/statement/hasMassFractionOfP

reConsumerRecycledMaterialsOutOfTheTotalProductMass

Sub Property Of hasQuantityInterval op

Domain RecycledMaterialStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has mass fraction of product designed for recycling to original input op

roductDesignedForRecyclingToOriginalInput

Sub Property Of hasQuantityInterval op

Domain RecyclingStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has mass fraction of product released into environment op

roductReleasedIntoEnvironment

Sub Property Of hasQuantityInterval op

Domain ReleasedIntoEnvironmentStatement^C

has mass fraction of recycled materials out of the total product mass op

ecycledMaterialsOutOfTheTotalProductMass

Sub Property Of hasQuantityInterval op

Domain RecycledMaterialStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has mass fraction of renewable materials out of the total product mass op

IRI http://w3id.org/CEON/ontology/statement/hasMassFractionOfR

enewableMaterialsOutOfTheTotalProductMass

Sub Property Of hasQuantityInterval op

Domain SustainablyProducedRenewableMaterialStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has mass fraction of reused parts out of the total product op

IRI http://w3id.org/CEON/ontology/statement/hasMassFractionOfR

eusedPartsOutOfTheTotalProduct

Sub Property Of hasQuantityInterval op

Domain ReusedContentStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has post consumer recycled material composition threshold op

IRI http://w3id.org/CEON/ontology/statement/hasPostConsumerRec

ycledMaterialCompositionThreshold

Sub Property Of <u>hasQuantityInterval</u>op

Domain RecycledMaterialStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has pre consumer recycled material composition threshold op

cledMaterialCompositionThreshold

Sub Property Of hasQuantityInterval op

Domain RecycledMaterialStatement^C

has quantity interval op

IRI

http://w3id.org/CEON/ontology/statement/hasQuantityInterva

Super Property Of

- hasChemicalSubstanceThresholdUsedByManufacturer^{op}
- hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix^{op}
- <u>hasMassFractionForDemounting</u> op
- hasMassFractionForDisassembly op
- hasMassFractionOfAllDisclosedChemicalSubstance op
- hasMassFractionOfDismantableComponentsForReuseAndRecycle^{op}
- <u>hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMass</u>
- hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProduc tMass^{op}
- <u>hasMassFractionOfProductDesignedForRecyclingToOriginalInput</u>op
- <u>hasMassFractionOfProductReleasedIntoEnvironment</u>^{op}
- hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass^{op}
- <u>hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass</u>^{op}
- hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}
- hasPostConsumerRecycledMaterialCompositionThreshold op
- hasPreConsumerRecycledMaterialCompositionThreshold op
- hasVolumeFractionOfReductionOfDirectWaterConsumptionUsedInProduct ion^{op}
- <u>hasVolumeFractionOfReusedOrRecirculatedWaterUsedInProduction</u>^{op}

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has validation op

IRI http://w3id.org/CEON/ontology/statement/hasValidation

Range Validation^C

has volume fraction of reduction of direct water consumption used in production op

fReductionOfDirectWaterConsumptionUsedInProduction

Sub Property Of hasQuantityInterval op

Domain WaterReuseOrRecirculationStatement^C

Range http://w3id.org/CEON/ontology/quantity#QuantityInterval

has volume fraction of reused or recirculated water used in production op

 $fReused 0 \\ rRecirculated \\ Water \\ Used \\ In Production$

Sub Property Of hasQuantityInterval op

Domain WaterReuseOrRecirculationStatement^C

statement about op

IRI http://w3id.org/CEON/ontology/statement/statementAbout

Domain Statement^C

Datatype Properties

available end date dp

Range xsd:date

available start date dp

Range xsd:date

is pcds statement true ^{dp}

е

Range <u>xsd:boolean</u>

statement value ^{dp}

IRI http://w3id.org/CEON/ontology/statement/statementValue

Domain Statement^C

Annotation Properties

 $is sued \\ ^{ap}$

IRI http://purl.org/dc/terms/issued

publisher ap

http://purl.org/dc/terms/publisher

has unit^{ap}

http://qudt.org/schema/qudt/hasUnit

numeric value ^{ap}

has maximal value included of interval ap

IRI http://w3id.org/CEON/ontology/quantity#hasMaximalValueIncl

udedOfInterval

has minimal value included of interval ap

udedOfInterval

has minimal value not included of interval ap

IRI http://w3id.org/CEON/ontology/quantity#hasMinimalValueNotI

ncludedOfInterval

Pcd Smapping ap

Namespaces

```
http://w3id.org/CEON/ontology/statement/
dcterms
    http://purl.org/dc/terms/
owl
    http://www.w3.org/2002/07/owl#
prov
    http://www.w3.org/ns/prov#
rdf
    http://www.w3.org/1999/02/22-rdf-syntax-ns#
rdfs
    http://www.w3.org/2000/01/rdf-schema#
resourceODP
    http://w3id.org/CEON/ontology/resourceODP/
vann
    http://purl.org/vocab/vann/
xsd
    http://www.w3.org/2001/XMLSchema#
```

Legend

c Classes op Object Properties dp Datatype Properties ap Annotation Properties		
dp Datatype Properties ap Annotation	С	Classes
Properties Annotation	ор	Object Properties
ap	dp	
	ар	,