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 hasAvailability 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>nent^c</u>

MFOfProductDesignedCleanlyRemovedFromProductAssemblyStatement^C

Disclosed Chemical Subtance Statement^c

ubtanceStatement

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

hasChemicalSubstanceThresholdUsedByManufacturer^{op} value <u>0gt-0.001le^c</u> or <u>hasChemicalSubstanceThresholdUsedByManufacturer^{op} value <u>0gt-0.01le^c</u> or <u>hasChemicalSubstanceThresholdUsedByManufacturer^{op} value <u>0gt-0.1le^c</u> or <u>hasChemicalSubstanceThresholdUsedByManufacturer^{op} value <u>1ge^c</u></u></u></u>

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

eEnergyStatement

Sub Class Of

RenewableEnergyStatement^C

hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix^{op} value

Ogt-10le^c or

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

50qt-75le^c or

hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix^{op} value

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

<u>hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix</u>op value

95gt-99le^c or

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

75qt-95le^c or

<u>hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix op value</u>

99gt-100le^c or

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

Oge-Ole c or

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

25gt-50le^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 <u>DismantlingStatement</u>^C

Mf Of Dismantlable Component For Reuse Recycled Statement^C

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

mponentForReuseRecycledStatement

Sub Class Of

<u>DismantlingStatement</u>^c

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value

95gt-99le^c or

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value

10gt-25le^c or

 $\underline{has MassFraction Of Dismantable Components For Reuse And Recycle}^{op}\ value$

50qt-75le^c or

<u>hasMassFractionOfDismantableComponentsForReuseAndRecycle</u> op value Oge-Ole or has Mass Fraction Of Dismantable Components For Reuse And Recycle

op value 25gt-50lec or

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value

75gt-95le^c or

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value

99gt-100le^c or

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value ogt-

10le^c

Mf Of Post Consumer Recycled Material Content Availability Statement Content Availability Statement

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

cycledMaterialContentAvailabilityStatement

Sub Class Of RecycledMaterialStatement^C

Mf Of Post Consumer Recycled Material Content Statement^C

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

cycledMaterialContentStatement

Sub Class Of

RecycledMaterialStatement^C

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

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

 $\underline{has Mass Fraction Of Post Consumer Recycled Materials Out Of The Total Product Mas}$

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

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

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

hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas

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

hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas sop value Oge-Olec or

hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas

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

hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas

s^{op} value 10gt-25le^c or

hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas

s^{op} value 25gt-50le^c

Mf Of Pre Consumer Recycled Material Content Availability Statement C

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

ycledMaterialContentAvailabilityStatement

Sub Class Of RecycledMaterialStatement^c

Mf Of Pre Consumer Recycled Material Content Statement^C

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

vcledMaterialContentStatement

Sub Class Of

RecycledMaterialStatement^c

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

Operation of the second control of the se

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

hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass

op value 99gt-100lec or

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

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

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

op value <u>Oge-Ole c or</u>

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

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

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

op value 75gt-95le c or

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

op value 10gt-25le^c

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

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

 ${\tt dCleanlyRemovedFromFixedAssemblyAvailabilityStatement}$

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

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

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

 ${\tt dCleanlyRemovedFromFixedAssemblyStatement}$

Sub Class Of

DemountingStatement^c

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

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

hasMassFractionForDemounting op value 25gt-50le c

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

 ${\tt dCleanlyRemovedFromProductAssemblyAvailabilityStatement}$

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

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

dCleanlyRemovedFromProductAssemblyStatement

Sub Class Of

<u>DisassemblyStatement^c</u>

hasMassFractionForDisassembly op value 95gt-99le or hasMassFractionForDisassembly op value 10gt-25le or hasMassFractionForDisassembly op value 0ge-0le or hasMassFractionForDisassembly op value 99gt-100le or hasMassFractionForDisassembly op value 75gt-95le or hasMassFractionForDisassembly op value 0gt-10le or hasMassFractionForDisassembly op value 25gt-50le or hasMassFractionForDisassembly op value 25gt-50le or hasMassFractionForDisassembly op value 50gt-75le op val

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

hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op} value 25gt-50le^c or hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op}

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

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

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

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

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

 $\frac{hasMassFractionOfProductDesignedForRecyclingToOriginalInput}{op} \ value \ \ \underline{75gt-95le^c} \ or \ hasMassFractionOfProductDesignedForRecyclingToOriginalInput}{op}$

value 95qt-99le^c

Mf Of Product Released To Environment Availablity Statement^C

IRI http://w3id.org/CEON/ontology/statement/MF0fProductRelease

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

Mass Fraction Of Recycled Material Statement^c

cledMaterialStatement

Sub Class Of

RecycledMaterialStatement^c

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

value 10gt-25le^c or

 $\frac{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{50le}^{op} \ value \ \underline{25gt-50le}^{c} \ \textit{or} \ \underline{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}^{op}$

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

value 95gt-99le c or

 $\frac{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{100le^{c}} or \frac{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{100le^{c}} or \frac{hasMassFractionOfTheTotalProductMass}{100le^{c}} or \frac{hasMassFract$

value 75gt-95le^c

Mass Fraction Of Renewable Material Statement^C

wableMaterialStatement

Sub Class Of

<u>SustainablyProducedRenewableMaterialStatement</u>^C

 $\frac{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}{0ge-0le^{\tt C}\ or\ hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}{op\ value\ 0gt-10le^{\tt C}\ or\ }$

 $\frac{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}{50gt-75le}^{c} \ or$

 $\frac{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}{op} \ {\bf value} \\ \frac{99gt-100le^{\,c}}{or} \ or$

 $\frac{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}{op} \\ \textbf{value} \\ 75 \\ \text{gt-95} \\ \textbf{le}^{\texttt{c}} \\ \textit{or}$

 $\frac{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}{op} \ \textbf{value} \\ \frac{1}{3} \frac{1}$

hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass^{op} value

 $\frac{10gt\text{-}25le^{\texttt{C}}}{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}^{op} \, \textbf{value}$

95qt-991e^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 95gt-99le^c or hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 25gt-50le^c or hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 10gt-25le^c or hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 99gt-100le^c or hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 50gt-75le^c or hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 75gt-95le^c or hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 0ge-0le^c or hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 0ge-0le^c or hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 0ge-10le^c or

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

 $\underline{hasVolumeFractionOfReductionOfDirectWaterConsumptionUsedInProduction}^{op}$

value 99gt-100le^c or

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

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

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

value 25gt-50le^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 10gt-25le^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>75qt-95le ^c or</u>

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

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

atedWaterStatement

Sub Class Of

<u>WaterReuseOrRecirculationStatement</u>^c

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

95gt-99le^c or

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

Ogt-10le^c or

hasVolumeFractionOfReusedOrRecirculatedWaterUsedInProduction^{op} value

Oge-Ole^c or

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

50gt-75le^c or

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

10gt-25le^c or

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

75gt-95le^c or

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

25qt-50le^c or

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

99gt-100le^C

Validation ^c

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}

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

numeric value ^{ap}

IRI http://qudt.org/schema/qudt/numericValue

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

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

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	,