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

<u>hasChemicalSubstanceThresholdUsedByManufacturer</u>op

 $\underline{hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix}^{op}$

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

 $\underline{has Mass Fraction Of All Disclosed Chemical Substance}^{op}$

 $\underline{hasMassFractionOfDismantableComponentsForReuseAndRecycle}^{op}$

hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas

sop

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

ор

 $\underline{hasMassFractionOfProductDesignedForRecyclingToOriginalInput}^{op}$

 $\underline{has MassFraction Of Product Released Into Environment}^{op}$

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

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

<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-0le ⁿⁱ</u>

<u>0gt-0.001le</u>ⁿⁱ

<u>0gt-0.01le</u>ⁿⁱ

0gt-0.1leni

<u>0gt-10leⁿⁱ</u>

0.1ge-0.1leⁿⁱ

<u>1ge</u>ni

10gt-25leni

25gt-50leni

50gt-75leⁿⁱ

75gt-95leni

95qt-99leⁿⁱ

99gt-100leⁿⁱ

Availability ^C

In Range Of hasAvailability op

Named Individuals

<u>publi</u>cⁿⁱ

<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

nt^c

 $\underline{\mathsf{MFOfProductDesignedCleanlyRemovedFromFixedAssemblyStatement}^c}$

Disassembly Statement^C

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

nt

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionForDisassembly op

Super Class Of MFOfProductDesignedCleanlyRemovedFromProductAssemblyAvailabilityState

<u>ment^c</u>

MFOfProductDesignedCleanlyRemovedFromProductAssemblyStatement^C

Disclosed Chemical Subtance Statement ^c

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

ubtanceStatement

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

 $\frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ value \\ \frac{1ge^{c}}{or} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ value \\ \frac{0gt-0.1le^{c}}{or} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ value \\ \frac{0gt-0.01le^{c}}{or} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ value \\ \frac{0gt-0.001le^{c}}{or} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ value \\ \frac{0gt-0.001le^{c}}{or} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ value \\ \frac{0gt-0.001le^{c}}{or} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ value \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubstanceThresholdUsedByManufacturer^{op}} \\ \frac{hasChemicalSubstanceThresholdUsedByManufacturer^{op}}{hasChemicalSubsta$

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

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

<u>50gt-75le</u>^c or

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

Ogt-10le^c or

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

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

<u>hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix</u>op value

<u>95gt-99le</u>^c or

<u>hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix</u>op value

99qt-100le^c or

<u>hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix</u>op value

75gt-95le^c or

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

Oge-Ole c or

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

25gt-50le^c

Hazardous Substance Declaration Availability Statement ^C

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

mponentForReuseRecycledStatement

Sub Class Of

<u>DismantlingStatement</u>^c

<u>hasMassFractionOfDismantableComponentsForReuseAndRecycle</u> op value

75gt-95le^c or

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value

50gt-75le^c or

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value oge-ole or hasMassFractionOfDismantableComponentsForReuseAndRecycle

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

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

25gt-50le^c or

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value

99gt-100le^c or

hasMassFractionOfDismantableComponentsForReuseAndRecycle op value

95gt-99le^c or

<u>hasMassFractionOfDismantableComponentsForReuseAndRecycle</u> op value

10gt-25le[©]

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

 $\underline{has MassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas}$

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

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

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

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

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

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

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

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

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

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

hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas

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

hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMas

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

Mf Of Pre Consumer Recycled Material Content Availability Statement C

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

ycledMaterialContentAvailabilityStatement

Sub Class Of RecycledMaterialStatement^c

Mf Of Pre Consumer Recycled Material Content Statement^C

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

ycledMaterialContentStatement

Sub Class Of

RecycledMaterialStatement^c

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

Operation of the second control of the se

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

hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass

op value 25gt-50le c or

 $\underline{hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass}$

op value 99gt-100lec or

hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProductMass

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

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

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

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

op value 95qt-99le c or

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

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

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

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

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

<u>DemountingStatement^C</u>

hasMassFractionForDemounting op value 95gt-99le or hasMassFractionForDemounting op value 50gt-75le or <u>hasMassFractionForDemounting</u> op value <u>0gt-10le</u> or <u>hasMassFractionForDemounting</u> op value <u>75gt-95le</u> or hasMassFractionForDemounting op value Oge-Ole or hasMassFractionForDemounting op value 10gt-25le or hasMassFractionForDemounting op value 25gt-50le or

hasMassFractionForDemounting op value 99gt-100le c

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

dCleanlyRemovedFromProductAssemblyStatement

Sub Class Of

<u>DisassemblyStatement^c</u>

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

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

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

ngAtSimilarLevelStatement

Sub Class Of

RecyclingStatement^c

 $\frac{hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op}}{Ole^{c}\ or\ hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op}}$

value <u>25gt-50le</u> or <u>hasMassFractionOfProductDesignedForRecyclingToOriginalInput</u> op value <u>0gt-</u>

10le^c or hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op} value 95qt-99le^c or

hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op} value 75gt-95le^c or hasMassFractionOfProductDesignedForRecyclingToOriginalInput^{op}

value 50gt-75lecor

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

value 99qt-100le^C

Mf Of Product Released To Environment Availablity Statement ^C

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

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

ialAvailabilityStatement

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

<u>ProductCompositionStatement^c</u>

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

Mass Fraction Of Recycled Material Statement^c

cledMaterialStatement

Sub Class Of

RecycledMaterialStatement^c

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

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

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

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

 $\frac{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}{op} \ value \ \underline{95gt-99le}^c \ or \ \underline{hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass}^{op}$

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

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

value 50gt-75le^c

Mass Fraction Of Renewable Material Statement C

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

wableMaterialStatement

Sub Class Of

<u>SustainablyProducedRenewableMaterialStatement</u>^C

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

10gt-25le^c or

 $\frac{hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}{Oge-Ole^{\texttt{C}}\ or\ hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass}$

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

 $\underline{has MassFractionOf Renewable MaterialsOutOf The Total Product Mass}^{op} \ value$

95gt-99le^c or

 $\underline{has MassFraction Of Renewable Materials Out Of The Total Product Mass}^{op}\ value$

Ogt-10le^c or

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

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

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

99gt-100le^c or

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

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

hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op} value 50gt-75le^c

Pc Availability Statement ^c

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

ement

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

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 <u>RecycledMaterialStatement</u>^C

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

PostConsumerRecycledMaterialCompositionStatement^C

Pre Consumer Recycled Material Composition Availability Statement C

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

dMaterialCompositionAvailabilityStatement

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

<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

 $\frac{has Chemical Substance Threshold Used By Manufacturer}{has Mass Fraction Of All Disclosed Chemical Substance} op$

Super Class Of

<u>DisclosedChemicalSubtanceStatement</u>^c

<u>HazardousSubstanceDeclarationAvailabilityStatement</u>^c

HazardousSubstanceStatement^c

<u>MassFractionOfDisclosedChemicalSubstanceStatement</u>^c

PCAvailabilityStatement^C

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

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

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

 s^{op}

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

op

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

Super Class Of

MFOfPostConsumerRecycledMaterialContentAvailabilityStatement^C

MFOfPostConsumerRecycledMaterialContentStatement^C

MFOfPreConsumerRecycledMaterialContentAvailabilityStatement^C

 $\frac{MFOfPreConsumerRecycledMaterialContentStatement}{MFOfRecycledMaterialContentAvailabilityStatement}^{\mathtt{C}}$

<u>MassFractionOfRecycledMaterialStatement</u>^c

<u>PostConsumerRecycledMaterialCompositionAvailabilityStatement</u>[©]

<u>PostConsumerRecycledMaterialCompositionStatement</u>^c

<u>PreConsumerRecycledMaterialCompositionAvailabilityStatement</u>^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

 ${\tt nmentStatement}$

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionOfProductReleasedIntoEnvironment^{op}

Super Class Of

MFOfProductReleasedToEnvironmentAvailablityStatement^C

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

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^C</u>

Reused Content Statement C

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

ment

Sub Class Of PCDSStatement^C

In Domain Of hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}

Super Class Of MFOfReusedPartAvailabilityStatement^C

MassFractionOfReusedPartStatement C

Statement ^C

Sub Class Of Entity^c

In Domain Of

statementAbout^{op} statementValue^{dp}

Super Class Of PCDSStatement^C

Sustainably Produced Renewable Material Statement^c

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

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

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

tWaterStatement

Sub Class Of

WaterReuseOrRecirculationStatement^c

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

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

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

value 95gt-99le^c or

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

value 25gt-50le^c or

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

value 99qt-100le^c or

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

value 10qt-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>Ogt-10le ^c or</u>

hasVolumeFractionOfReductionOfDirectWaterConsumptionUsedInProduction^{op}

value 75gt-95le^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

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

atedWaterStatement

Sub Class Of

<u>WaterReuseOrRecirculationStatement</u>^c

<u>hasVolumeFractionOfReusedOrRecirculatedWaterUsedInProduction</u> op value

75gt-95le^c or

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

99gt-100le^c or

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

25gt-50le^c or

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

10gt-25le^c or

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

95gt-99le^c or

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

Ogt-10lec or

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

50qt-75le^c or

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

Oge-Ole^c

Validation ^c

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

In Range Of has Validation op

Named Individuals

certified ni

validatedByThirdPartyⁿⁱ

Water Reuse Or Recirculation Statement^c

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

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

<u>VFOfReductionDirectWaterAvailabilityStatement</u>^c

<u>VFOfReductionDirectWaterStatement</u>^C

<u>VFOfReusedRecirculatedWaterAvailabilityStatement</u>^C

<u>VFOfReusedRecirculatedWaterStatement</u>^c

Entity ^C

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

Super Class Of resourceODP:Resource

<u>Statement^c</u>

Role C

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

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

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

ableEnergyOutOfTheTotalProductionEnergyMix

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

<u>DisassemblyStatement</u>^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 hasQuantityInterval 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

ostConsumerRecycledMaterialsOutOfTheTotalProductMass

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

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

 $roduct Designed For Recycling To 0 \verb|riginalInput|$

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

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

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

<u>Domain</u> <u>SustainablyProducedRenewableMaterialStatement</u>^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

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

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

 ${\tt cledMaterialCompositionThreshold}$

Sub Property Of hasQuantityInterval op

Domain RecycledMaterialStatement^C

has quantity interval op

IRI

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

Super Property Of

- hasChemicalSubstanceThresholdUsedByManufacturerop
- hasFractionOfRenewableEnergyOutOfTheTotalProductionEnergyMix^{op}
- <u>hasMassFractionForDemounting</u> op
- hasMassFractionForDisassembly op
- hasMassFractionOfAllDisclosedChemicalSubstanceop
- hasMassFractionOfDismantableComponentsForReuseAndRecycle^{op}
- <u>hasMassFractionOfPostConsumerRecycledMaterialsOutOfTheTotalProductMass^{op}</u>
- hasMassFractionOfPreConsumerRecycledMaterialsOutOfTheTotalProduc tMass^{op}
- $\bullet \ \underline{hasMassFractionOfProductDesignedForRecyclingToOriginalInput}^{op}\\$
- <u>hasMassFractionOfProductReleasedIntoEnvironment</u>op
- hasMassFractionOfRecycledMaterialsOutOfTheTotalProductMass^{op}
- hasMassFractionOfRenewableMaterialsOutOfTheTotalProductMass^{op}
- hasMassFractionOfReusedPartsOutOfTheTotalProduct^{op}
- hasPostConsumerRecycledMaterialCompositionThreshold op
- hasPreConsumerRecycledMaterialCompositionThreshold op
- hasVolumeFractionOfReductionOfDirectWaterConsumptionUsedInProduct ion^{op}
- hasVolumeFractionOfReusedOrRecirculatedWaterUsedInProduction^{op}

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

has validation op

Range Validation^C

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

fReduction Of Direct Water Consumption Used In Production

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

 $fReused {\tt OrRecirculatedWaterUsedInProduction}$

Sub Property Of hasQuantityInterval op

Domain WaterReuseOrRecirculationStatement^C

statement about op

Domain Statement^C

Datatype Properties

available end date dp

Range xsd:date

available start date dp

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

Range xsd:date

is pcds statement true dp

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

e

Range xsd:boolean

statement value ^{dp}

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

Domain Statement^C

Annotation Properties

issued ^{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

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

has maximal value included of interval ap

has minimal value included of interval ap

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

С	Classes
ор	Object Properties
dp	Datatype Properties
ар	Annotation Properties