Circular Economy Ontology Network (CEON) - Process Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Process Module

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Version Iri

http://w3id.org/CEON/ontology/process/0.1/

Version Info

0.1

Preferred Namespace Prefix

process

Preferred Namespace Uri

https://w3id.org/CEON/ontology/process/

Description

The Process module of CEON (Circular Economy Ontology Network).

Covers Requirements

In addition to requirements covered by imported ODPs, covers the following requirements from $Onto-DESIDE\ D3.1:\ T8-2$

Classes

Assembling Process^C

Sub Class Of processODP:Transformation^C

Buy Resource Process C

Sub Class Of processODP:Transformation^C

Co2Emission^C

IRI http://w3id.org/CEON/ontology/process/CO2Emission

Sub Class Of resourceODP:Resource^C

In Range Of produces CO2 op

Cathalyst ^C

Sub Class Of resourceODP:Resource^C

In Range Of usesCathalyst^{op}

Change Resource Process ^c

http://w3id.org/CEON/ontology/process/ChangeResourceProces

S

Sub Class Of processODP:Transformation^C

Contact Process^C

Sub Class Of processODP:Transformation^C

Deconstruction Process^C

S

Sub Class Of processODP:Transformation^C

Dismantle Process ^C

Sub Class Of processODP:Transformation^C

Energy ^C

IRI http://w3id.org/CEON/ontology/process/Energy

Sub Class Of resourceODP:Resource^C

In Range Of needsEnergy^{op}

Ensure Claim Process C

Sub Class Of processODP:Transformation^C

Issuing Certificate Process ^C

IRI http://w3id.org/CEON/ontology/process/IssuingCertificatePr

ocess

Sub Class Of processODP:Transformation^C

Manufacturing Process ^C

Sub Class Of processODP:Transformation^C

Offset Process C

Sub Class Of processODP:Transformation^C

Production Process^C

Sub Class Of processODP:Transformation^c

Recycle Process^C

Sub Class Of processODP:Transformation^C

Refurbishment Process ^C

Sub Class Of processODP:Transformation^C

Remove Process^C

Sub Class Of processODP:Transformation^C

Remove Resource Process ^C

IRI http://w3id.org/CEON/ontology/process/RemoveResourceProces

S

Sub Class Of processODP:Transformation^C

Repair Process^C

Sub Class Of processODP:Transformation C

Resell Process^C

Sub Class Of processODP:Transformation^C

Reuse Process^C

Sub Class Of processODP:Transformation^C

Sell Resource Process C

Sub Class Of processODP:Transformation^c

Service Process^C

Sub Class Of processODP:Transformation^C

Share Resource Process C

Sub Class Of processODP:Transformation^c

Take Back Process^c

Sub Class Of processODP:Transformation^C

Transformation ^C

IRI http://w3id.org/CEON/ontology/processODP/Transformation

Super Class Of

AssemblingProcess^c
BuyResourceProcess^c
ChangeResourceProcess^c

ContactProcess^C

DeconstructionProcess^c
DismantleProcess^c
EnsureClaimProcess^c
IssuingCertificateProcess^c
ManufacturingProcess^c
OffsetProcess^c
ProductionProcess^c

ProductionProcess^C
RecycleProcess^C
RefurbishmentProcess^C
RemoveProcess^C

RemoveResourceProcess^C

RepairProcess^C
ResellProcess^C
ReuseProcess^C
SellResourceProcess^C
ServiceProcess^C
ShareResourceProcess^C
TakeBackProcess^C

Resource ^C

In Range Of resultingProduct^{op}

Super Class Of CO2Emission^C

Cathalyst^c Energy^c

Object Properties

needs energy op

Sub Property Of processODP:hasInput^{op}

Range <u>Energy</u>^c

produces co2 op

Sub Property Of processODP:hasOutput op

Range CO2Emission^C

resulting product op

Sub Property Of processODP:hasOutput op

Range resourceODP:Resource^C

uses cathalyst^{op}

Sub Property Of processODP:hasInput^{op}

Range <u>Cathalyst</u>^C

has input op

Super Property Of

• needsEnergy^{op}

• usesCathalyst^{op}

has output op

http://w3id.org/CEON/ontology/process0DP/hasOutput

Super Property Of

• producesCO2^{op}

• resultingProductop

Annotation Properties

contributor ap

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

created ap

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

creator ap

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

description ap

```
license ap
IRI
                  http://purl.org/dc/terms/license
title <sup>ap</sup>
IRI
                  http://purl.org/dc/terms/title
preferred namespace prefix ap
IRI
                  http://purl.org/vocab/vann/preferredNamespacePrefix
preferred namespace uri ap
IRI
                  http://purl.org/vocab/vann/preferredNamespaceUri
covers requirements ap
IRI
                  http://www.ontologydesignpatterns.org/schemas/cpannotation
                  schema.owl#coversRequirements
Namespaces
    http://w3id.org/CEON/ontology/process/
dcterms
```

```
http://purl.org/dc/terms/
odp
    http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#
owl
    http://www.w3.org/2002/07/owl#
processODP
    http://w3id.org/CEON/ontology/processODP/
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/
```

Legend

C Classesop Object Propertiesap Annotation Properties