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

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

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 producesCO2 op

Cathalyst ^c

Sub Class Of resourceODP:Resource^C

In Range Of usesCathalyst^{op}

Change Resource Process ^c

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

Sub Class Of processODP:Transformation^C

Contact Process^C

Sub Class Of processODP:Transformation^C

Deconstruction Process ^C

Sub Class Of processODP:Transformation^C

Dismantle Process ^C

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

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/IssuingCertificateProcess

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

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

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/RemoveResourceProcess

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

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

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

<u>AssemblingProcess^C</u> <u>BuyResourceProcess^C</u> <u>ChangeResourceProcess^C</u>

ContactProcess^C

<u>DeconstructionProcess^C</u> <u>DismantleProcess</u>^C EnsureClaimProcess^C <u>IssuingCertificateProcess^C</u> <u>ManufacturingProcess</u>^C OffsetProcess^C <u>ProductionProcess^C</u> RecycleProcess^C

RemoveResourceProcess^C

<u>RefurbishmentProcess^C</u> RemoveProcess^C

RepairProcess^C ResellProcess^C ReuseProcess^C <u>SellResourceProcess</u>^C <u>ServiceProcess</u>^C <u>ShareResourceProcess^C</u> TakeBackProcess^C

Resource ^C

http://w3id.org/CEON/ontology/resourceODP/Resource IRI

In Range Of resultingProduct^{op}

Super Class Of

CO2Emission^C Cathalyst^C **Energy**^C

Object Properties

needs energy op

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

Sub Property Of processODP:hasInputop

Range Energy^C

produces co2 op

IRI http://w3id.org/CEON/ontology/process/producesCO2

Sub Property Of processODP:hasOutputop

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

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

Super Property Of

needsEnergy^{op}usesCathalyst^{op}

has output op

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

Super Property Of

producesCO2^{op}
 resultingProduct^{op}

Annotation Properties

contributor ap

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

created ^{ap}

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

creator ap

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

description ap

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

license ap IRI http://purl.org/dc/terms/license title ap 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/cpannotationschema.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 Classes

op Object
Properties

ap Annotation
Properties