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/0.4/

Version Info

0.4

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 $Onto-DESIDE\ D3.1:\ T8-2$

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

Classes

⊏nergy •

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

Sub Class Of resourceODP:Resource

In Range Of needsEnergy^{op}

Assembling Process C

Buy Resource Process ^c

Sub Class Of processODP:TransformationProcess^C

Co2Emission^C

Sub Class Of resourceODP:Resource^C

In Range Of producesCO2^{op}

Catalyst ^c

Sub Class Of resourceODP:Resource^C

In Range Of usesCatalyst^{op}

Change Resource Process ^C

S

Sub Class Of processODP:TransformationProcess^C

Contact Process ^C

Sub Class Of processODP:TransformationProcess^C

Deconstruction Process^C

S

Sub Class Of processODP:TransformationProcess^C

Disassembling Process ^c

Dismantle Process ^C

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

Sub Class Of processODP:TransformationProcess^C

Ensure Claim Process^C

Sub Class Of processODP:TransformationProcess^C

Issuing Certificate Process ^c

ocess

Sub Class Of processODP:TransformationProcess

Manufacturing Process^C

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

Sub Class Of processODP:TransformationProcess^C

Offset Process C

Sub Class Of processODP:TransformationProcess^C

Production Process^C

Sub Class Of processODP:TransformationProcess^C

Recycle Process^C

Sub Class Of processODP:TransformationProcess^C

Refurbishment Process^C

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

Remove Process ^C

Sub Class Of processODP:TransformationProcess^C

Remove Resource Process C

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

S

Sub Class Of processODP:TransformationProcess^C

Repair Process^C

Sub Class Of processODP:TransformationProcess^C

Resell Process C

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

Sub Class Of processODP:TransformationProcess^C

Reuse Process^C

Sub Class Of processODP:TransformationProcess^C

Sell Resource Process^C

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

Sub Class Of processODP:TransformationProcess^C

Service Process^C

Sub Class Of processODP:TransformationProcess^C

Share Resource Process C

Take Back Process ^C

Sub Class Of processODP:TransformationProcess^C

Transformation Process ^C

cess

Super Class Of

<u>AssemblingProcess^c</u> <u>BuyResourceProcess^c</u>

<u>ChangeResourceProcess</u>^C

ContactProcess^C

DeconstructionProcess^C
DisassemblingProcess^C
DismantleProcess^C
EnsureClaimProcess^C
IssuingCertificateProcess^C
ManufacturingProcess^C

OffsetProcess^c
ProductionProcess^c
RecycleProcess^c
RefurbishmentProcess^c
RemoveProcess^c

<u>RemoveResourceProcess^c</u>

RepairProcess^c
ResellProcess^c
ReuseProcess^c
SellResourceProcess^c
ServiceProcess^c

ShareResourceProcess^C
TakeBackProcess^C

Resource ^C

In Range Of resultingResource op

Super Class Of

http://w3id.org/CEON/ontology/energy/Energy^c

CO2Emission^C Catalyst^C

Object Properties

needs energy op

Sub Property Of processODP:hasInput^{op}

Range http://w3id.org/CEON/ontology/energy/Energy

produces co2 op

Sub Property Of processODP:hasOutput op

Range CO2Emission^c

resulting resource op

Sub Property Of processODP:hasOutput op

Range resourceODP:Resource^C

uses catalyst^{op}

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

Sub Property Of processODP:hasInput^{op}

Range Catalyst^C

has input op

Super Property Of

• needsEnergy op

• usesCatalyst^{op}

has output op

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

Super Property Of

producesCO2^{op}

• resultingResource 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		
IRI	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

