# 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/0.2/

**Version Info** 

0.2

**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<sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Buy Resource Process <sup>C</sup>

Co2Emission<sup>C</sup>

Sub Class Of resourceODP:Resource<sup>C</sup>

In Range Of produces CO2 op

Cathalyst <sup>C</sup>

Sub Class Of resourceODP:Resource<sup>C</sup>

In Range Of usesCathalyst<sup>op</sup>

Change Resource Process <sup>C</sup>

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

S

Sub Class Of processODP:Transformation<sup>c</sup>

Contact Process<sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Deconstruction Process<sup>C</sup>

S

Sub Class Of processODP:Transformation<sup>C</sup>

Disassembling Process <sup>c</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Dismantle Process <sup>C</sup>

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

Energy <sup>c</sup>

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

Sub Class Of resourceODP:ResourceC

In Range Of needsEnergy op

Ensure Claim Process<sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Issuing Certificate Process <sup>c</sup>

ocess

Sub Class Of processODP:Transformation<sup>C</sup>

Manufacturing Process <sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Offset Process<sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Production Process C

Sub Class Of processODP:Transformation<sup>C</sup>

Recycle Process<sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Refurbishment Process <sup>C</sup>

Remove Process <sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Remove Resource Process<sup>C</sup>

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

S

Sub Class Of processODP:Transformation<sup>C</sup>

Repair Process<sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Resell Process<sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Reuse Process<sup>C</sup>

Sub Class Of processODP:Transformation<sup>c</sup>

Sell Resource Process<sup>C</sup>

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

Sub Class Of processODP:Transformation<sup>C</sup>

Service Process<sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

Share Resource Process C

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

### Take Back Process <sup>C</sup>

Sub Class Of processODP:Transformation<sup>C</sup>

### Transformation <sup>c</sup>

**Super Class Of** 

AssemblingProcess<sup>C</sup>
BuyResourceProcess<sup>C</sup>
ChangeResourceProcess<sup>C</sup>

ContactProcess<sup>C</sup>

DeconstructionProcess<sup>C</sup>
DisassemblingProcess<sup>C</sup>
DismantleProcess<sup>C</sup>
EnsureClaimProcess<sup>C</sup>
IssuingCertificateProcess<sup>C</sup>
ManufacturingProcess<sup>C</sup>
OffsetProcess<sup>C</sup>
ProductionProcess<sup>C</sup>
RecycleProcess<sup>C</sup>
RefurbishmentProcess<sup>C</sup>

RemoveProcess<sup>c</sup>

RemoveResourceProcess<sup>C</sup>

RepairProcess<sup>c</sup>
ResellProcess<sup>c</sup>
ReuseProcess<sup>c</sup>
SellResourceProcess<sup>c</sup>
ServiceProcess<sup>c</sup>

<u>ShareResourceProcess</u><sup>c</sup> <u>TakeBackProcess</u><sup>c</sup>

## Resource <sup>C</sup>

In Range Of resultingProduct<sup>op</sup>

**Super Class Of** 

CO2Emission<sup>c</sup>
Cathalyst<sup>c</sup>
Energy<sup>c</sup>

## **Object Properties**

needs energy op

Sub Property Of processODP:hasInput<sup>op</sup>

Range <u>Energy</u><sup>c</sup>

produces co2 op

Sub Property Of processODP:hasOutput op

Range CO2Emission<sup>c</sup>

resulting product op

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

Sub Property Of processODP:hasOutput op

Range <u>resourceODP:Resource<sup>C</sup></u>

uses cathalyst<sup>op</sup>

Sub Property Of processODP:hasInput<sup>op</sup>

Range Cathalyst<sup>C</sup>

has input op

**Super Property Of** 

needsEnergy<sup>op</sup>

• usesCathalyst<sup>op</sup>

has output op

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

**Super Property Of** 

producesCO2<sup>op</sup>

• resultingProductop

# **Annotation Properties**

contributor <sup>ap</sup>	
IRI	http://purl.org/dc/terms/contributor
created <sup>ap</sup>	
IRI	http://purl.org/dc/terms/created
creator <sup>ap</sup>	
IRI	http://purl.org/dc/terms/creator
description ap	
IRI	http://purl.org/dc/terms/description
license <sup>ap</sup>	
IRI	http://purl.org/dc/terms/license
title <sup>ap</sup>	
IRI	http://purl.org/dc/terms/title
preferred namespace prefix <sup>ap</sup>	
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix
preferred namespace uri <sup>ap</sup>	
IRI	http://purl.org/vocab/vann/preferredNamespaceUri
covers requirements <sup>ap</sup>	
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

