# 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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**Date Created** 

2024-11-23

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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

Energy <sup>c</sup>	
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http://w3id.org/CEON/ontology/energy/Energy

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

In Range Of needsEnergy op

### Assembling Process C

Buy Resource Process<sup>c</sup>

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

Co2Emission<sup>C</sup>

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

In Range Of producesCO2 op

Catalyst<sup>C</sup>

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

In Range Of <u>usesCatalyst</u>op

Change Resource Process <sup>c</sup>

S

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

Contact Process<sup>C</sup>

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

Deconstruction Process<sup>C</sup>

S

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

Disassembling Process<sup>C</sup>

Dismantle Process<sup>C</sup>

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

Ensure Claim Process C

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

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

Issuing Certificate Process <sup>C</sup>

ocess

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

Manufacturing Process<sup>C</sup>

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

Offset Process<sup>C</sup>

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

Production Process<sup>C</sup>

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

Recycle Process<sup>C</sup>

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

Refurbishment Process<sup>C</sup>

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

Remove Process<sup>C</sup>

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

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

Remove Resource Process<sup>C</sup>

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

S

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

Repair Process<sup>C</sup>

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

Resell Process <sup>C</sup>

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

Reuse Process<sup>C</sup>

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

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

Sell Resource Process<sup>C</sup>

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

Service Process<sup>C</sup>

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

#### Transformation Process<sup>C</sup>

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

cess

**Super Class Of** 

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

<u>ChangeResourceProcess</u><sup>C</sup>

ContactProcess<sup>C</sup>

<u>DeconstructionProcess</u><sup>C</sup>

<u>DisassemblingProcess</u><sup>C</sup>

<u>DismantleProcess</u><sup>c</sup>

EnsureClaimProcess<sup>C</sup>

<u>IssuingCertificateProcess<sup>C</sup></u>

<u>ManufacturingProcess</u><sup>C</sup>

OffsetProcess<sup>C</sup>

<u>ProductionProcess<sup>C</sup></u>

RecycleProcess<sup>C</sup>

<u>RefurbishmentProcess</u><sup>C</sup>

RemoveProcess<sup>C</sup>

<u>RemoveResourceProcess<sup>C</sup></u>

RepairProcess<sup>C</sup>

ResellProcess<sup>C</sup>

ReuseProcess<sup>C</sup>

<u>SellResourceProcess<sup>C</sup></u>

ServiceProcess<sup>C</sup>

<u>ShareResourceProcess</u><sup>C</sup>

<u>TakeBackProcess</u><sup>C</sup>

### Resource <sup>c</sup>

In Range Of resultingResource op

**Super Class Of** 

http://w3id.org/CEON/ontology/energy/Energy<sup>C</sup>

CO2Emission<sup>C</sup>
Catalyst<sup>C</sup>

## **Object Properties**

needs energy op

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

Range <a href="http://w3id.org/CEON/ontology/energy/Energy">http://w3id.org/CEON/ontology/energy/Energy</a>

produces co2 op

Sub Property Of processODP:hasOutput op

Range CO2Emission<sup>C</sup>

resulting resource op

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

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

uses catalyst<sup>op</sup>

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

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

Range <u>Catalyst</u><sup>C</sup>

has input op

**Super Property Of** 

needsEnergy<sup>op</sup>

usesCatalyst<sup>op</sup>

has output op

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

**Super Property Of** 

producesCO2<sup>op</sup>

resultingResource<sup>op</sup>

# **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 ap		
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

