

# Circular Economy Ontology Network (CEON) - Process Module

## Metadata

### IRI

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

### Title

Circular Economy Ontology Network (CEON) - Process Module

### Creator

Huanyu Li

### Contributor

Eva Blomqvist

Mikael Lindecrantz

Robin Keskisärkkä

### License

<https://creativecommons.org/licenses/by/4.0/>

### 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, T10-1

## Classes

### Assembling Process<sup>C</sup>

#### IRI

<http://w3id.org/CEON/ontology/process/AssemblingProcess>

#### Sub Class Of

[processODP:Transformation](#)

### Buy Resource Process<sup>C</sup>

#### IRI

<http://w3id.org/CEON/ontology/process/BuyResourceProcess>

#### Sub Class Of

[processODP:Transformation](#)

## CO2 emission<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/CO2Emission>

**Description** An amount of CO2.

**Sub Class Of** [resourceODP:Resource](#)

**In Range Of** [produces CO2](#)<sup>op</sup>

## Cathalyst<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/Cathalyst>

**Description** A resource that is needed as a cathalyst by a process, but that is not considered the direct input or output of it.

**Sub Class Of** [resourceODP:Resource](#)

**In Range Of** [uses cathalyst](#)<sup>op</sup>

## Change Resource Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/ChangeResourceProcess>

**Sub Class Of** [processODP:Transformation](#)

## Contact Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/ContactProcess>

**Sub Class Of** [processODP:Transformation](#)

## Deconstruction Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/DeconstructionProcess>

**Sub Class Of** [processODP:Transformation](#)

## Dismantle Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/DismantleProcess>

**Sub Class Of** [processODP:Transformation](#)

## Energy<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/Energy>

**Description** An amount of energy.

**Sub Class Of** [resourceODP:Resource](#)

**In Range Of** [needs energy](#)<sup>op</sup>

## Ensure Claim Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/EnsureClaimProcess>

**Sub Class Of** [processODP:Transformation](#)

## Issuing Certificate Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/IssuingCertificateProcess>

**Sub Class Of** [processODP:Transformation](#)

## Manufacturing Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/ManufacturingProcess>

**Sub Class Of** [processODP:Transformation](#)

## Offset Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/OffsetProcess>

**Sub Class Of** [processODP:Transformation](#)

## Production Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/ProductionProcess>

**Sub Class Of** [processODP:Transformation](#)

## Recycle Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/RecycleProcess>

**Sub Class Of** [processODP:Transformation](#)

## Refurbishment Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/RefurbishmentProcess>

**Sub Class Of** [processODP:Transformation](#)

## Remove Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/RemoveProcess>

**Sub Class Of** [processODP:Transformation](#)

## Remove Resource Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/RemoveResourceProcess>

**Sub Class Of** [processODP:Transformation](#)

## Repair Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/RepairProcess>

**Sub Class Of** [processODP:Transformation](#)

## Resell Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/ResellProcess>

**Sub Class Of** [processODP:Transformation](#)

## Reuse Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/ReuseProcess>

**Sub Class Of** [processODP:Transformation](#)

## Sell Resource Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/SellResourceProcess>

**Sub Class Of** [processODP:Transformation](#)

## Service Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/ServiceProcess>

**Sub Class Of** [processODP:Transformation](#)

## Share Resource Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/process/ShareResourceProcess>

**Sub Class Of** [processODP:Transformation](#)

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

**IRI** <http://w3id.org/CEON/ontology/process/TakeBackProcess>

**Sub Class Of** [processODP:Transformation](#)

## Object Properties

### needs energy<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/process/needsEnergy>

**Description** The energy needed to perform a certain process.

**Sub Property Of** [processODP:hasInput](#)

**Range** [Energy<sup>C</sup>](#)

produces CO2<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/process/producesCO2>

**Description** The CO2 released or produced by the process.

**Sub Property Of** [processODP:hasOutput](#)

**Range** [CO2 emission](#)<sup>c</sup>

resulting product<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/process/resultingProduct>

**Description** The resource that is the output (product, i.e. what is produced) from a certain process.

**Sub Property Of** [processODP:hasOutput](#)

**Range** [resourceODP:Resource](#)

uses cathalyst<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/process/usesCathalyst>

**Description** The cathalyst used in a process.

**Sub Property Of** [processODP:hasInput](#)

**Range** [Cathalyst](#)<sup>c</sup>

## Annotation Properties

contributor<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/contributor>

creator<sup>ap</sup>

**IRI** <http://purl.org/dc/terms/creator>

description <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/description">http://purl.org/dc/terms/description</a>
license <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/license">http://purl.org/dc/terms/license</a>
title <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a>
preferred namespace prefix <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespacePrefix">http://purl.org/vocab/vann/preferredNamespacePrefix</a>
preferred namespace uri <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespaceUri">http://purl.org/vocab/vann/preferredNamespaceUri</a>

## 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**

## Legend

c

op

ap

Classes

Object Properties

Annotation Properties