# 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<sup>C</sup>

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

Buy Resource Process<sup>c</sup>

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

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

Co2Emission<sup>C</sup>

IRI http://w3id.org/CEON/ontology/process/CO2Emission

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

In Range Of producesCO2<sup>op</sup>

Cathalyst <sup>C</sup>

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

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

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

Change Resource Process C

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>

Dismantle Process<sup>C</sup>

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

Energy <sup>C</sup>

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

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

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>

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

ocess

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

Manufacturing Process <sup>c</sup>

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

Offset Process C

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

Production Process<sup>C</sup>

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>

Sub Class Of processODP:Transformation<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>

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

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

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>

<u>ContactProcess<sup>C</sup></u>

DeconstructionProcess<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>

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>
ShareResourceProcess<sup>C</sup>
TakeBackProcess<sup>C</sup>

Resource <sup>C</sup>

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

Super Class Of CO2Emission<sup>C</sup>

<u>Cathalyst<sup>c</sup></u> <u>Energy<sup>c</sup></u>

## **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

Sub Property Of processODP:hasOutput op

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

uses cathalyst<sup>op</sup>

Sub Property Of processODP:hasInput op

Range <u>Cathalyst</u><sup>C</sup>

has input op

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

**Super Property Of** 

• needsEnergy op

usesCathalyst<sup>op</sup>

has output op

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

**Super Property Of** 

producesCO2<sup>op</sup>

• resultingProductop

## **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

```
license ap
IRI
                  http://purl.org/dc/terms/license
title <sup>ap</sup>
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/cpannotation
                  schema.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