

# 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/0.3/>

### Version Info

0.3

### 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

### Energy<sup>C</sup>

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

**Sub Class Of** [resourceODP:Resource](#)<sup>C</sup>

**In Range Of** [needsEnergy\\_](#)<sup>op</sup>

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

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

**Sub Class Of** [processODP:Transformation](#)<sup>C</sup>

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

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

**Sub Class Of** [processODP:Transformation](#)<sup>C</sup>

## Co2Emission<sup>C</sup>

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**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>

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**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<sup>C</sup>

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

**Sub Class Of** [processODP:Transformation](#)<sup>C</sup>

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

## Disassembling Process<sup>C</sup>

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)

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

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

**Sub Class Of** [processODP:Transformation<sup>C</sup>](#)



## Transformation<sup>c</sup>

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IRI

<http://w3id.org/CEON/ontology/process0DP/Transformation>

### 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>](#)

[RemoveResourceProces](#)

[s<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>

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**IRI** <http://w3id.org/CEON/ontology/resourceODP/Resource>

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

**Super Class Of** <http://w3id.org/CEON/ontology/energy/Energy<sup>c</sup>>  
[CO2Emission<sup>c</sup>](#)  
[Cathalyst<sup>c</sup>](#)

## Object Properties

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

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

**Sub Property Of** [processODP:hasInput<sup>op</sup>](#)

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

produces co2<sup>op</sup>

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

**Sub Property Of** [processODP:hasOutput](#)<sup>op</sup>

**Range** [CO2Emission](#)<sup>c</sup>

resulting resource<sup>op</sup>

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

**Sub Property Of** [processODP:hasOutput](#)<sup>op</sup>

**Range** [resourceODP:Resource](#)<sup>c</sup>

uses cathalyst<sup>op</sup>

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

**Sub Property Of** [processODP:hasInput](#)<sup>op</sup>

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

has input<sup>op</sup>

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**IRI** <http://w3id.org/CEN/ontology/process0DP/hasInput>

Super Property Of

- [needsEnergy<sup>op</sup>](#)
- [usesCathalyst<sup>op</sup>](#)

has output<sup>op</sup>

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**IRI** <http://w3id.org/CEN/ontology/process0DP/hasOutput>

Super Property Of

- [producesCO2<sup>op</sup>](#)
- [resultingResource<sup>op</sup>](#)

## Annotation Properties

contributor<sup>ap</sup>

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

created<sup>ap</sup>

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

creator<sup>ap</sup>

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

description<sup>ap</sup>

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

license<sup>ap</sup>

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

title<sup>ap</sup>

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

preferred namespace prefix<sup>ap</sup>

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**IRI** <http://purl.org/vocab/vann/preferredNamespacePrefix>

preferred namespace uri<sup>ap</sup>

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**IRI** <http://purl.org/vocab/vann/preferredNamespaceUri>

**covers requirements<sup>ap</sup>**

<b>IRI</b>	<a href="http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements">http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements</a>
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## Namespaces

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<http://w3id.org/CE0N/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/CE0N/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/CE0N/ontology/resourceODP/>

**vann**

<http://purl.org/vocab/vann/>

## Legend

c	Classes
op	Object Properties
ap	Annotation Properties