

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

Date Created

2024-11-23

License

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

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 ^C	
IRI	http://w3id.org/CEON/ontology/energy/Energy
Sub Class Of	resourceODP:Resource^C
In Range Of	needsEnergy^{op}

Assembling Process ^C	
IRI	http://w3id.org/CEON/ontology/process/AssemblingProcess
Sub Class Of	processODP:Transformation^C

Buy Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/BuyResourceProcess>

Sub Class Of [processODP:Transformation^C](#)

Co2Emission^C

IRI <http://w3id.org/CE0N/ontology/process/CO2Emission>

Sub Class Of [resourceODP:Resource^C](#)

In Range Of [producesCO2^{op}](#)

Cathalyst^C

IRI <http://w3id.org/CE0N/ontology/process/Cathalyst>

Sub Class Of [resourceODP:Resource^C](#)

In Range Of [usesCathalyst^{op}](#)

Change Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/ChangeResourceProcesses>

Sub Class Of [processODP:Transformation^C](#)

Contact Process^C

IRI <http://w3id.org/CE0N/ontology/process/ContactProcess>

Sub Class Of [processODP:Transformation^C](#)

Deconstruction Process^C

IRI <http://w3id.org/CE0N/ontology/process/DeconstructionProcesses>

Sub Class Of [processODP:Transformation^C](#)

Disassembling Process^C

IRI <http://w3id.org/CE0N/ontology/process/DisassemblingProcess>

Sub Class Of [processODP:Transformation^C](#)

Dismantle Process^C

IRI <http://w3id.org/CE0N/ontology/process/DismantleProcess>

Sub Class Of [processODP:Transformation^C](#)

Ensure Claim Process^C

IRI <http://w3id.org/CE0N/ontology/process/EnsureClaimProcess>

Sub Class Of [processODP:Transformation^C](#)

Issuing Certificate Process^C

IRI <http://w3id.org/CE0N/ontology/process/IssuingCertificateProcess>

Sub Class Of [processODP:Transformation^C](#)

Manufacturing Process^C

IRI <http://w3id.org/CE0N/ontology/process/ManufacturingProcess>

Sub Class Of [processODP:Transformation^C](#)

Offset Process^C

IRI <http://w3id.org/CE0N/ontology/process/OffsetProcess>

Sub Class Of [processODP:Transformation^C](#)

Production Process^C

IRI <http://w3id.org/CE0N/ontology/process/ProductionProcess>

Sub Class Of [processODP:Transformation^C](#)

Recycle Process^C

IRI <http://w3id.org/CE0N/ontology/process/RecycleProcess>

Sub Class Of [processODP:Transformation^C](#)

Refurbishment Process^C

IRI <http://w3id.org/CE0N/ontology/process/RefurbishmentProcess>

Sub Class Of [processODP:Transformation^C](#)

Remove Process^C

IRI <http://w3id.org/CE0N/ontology/process/RemoveProcess>

Sub Class Of [processODP:Transformation^C](#)

Remove Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/RemoveResourceProcesses>

Sub Class Of [processODP:Transformation^C](#)

Repair Process^C

IRI <http://w3id.org/CE0N/ontology/process/RepairProcess>

Sub Class Of [processODP:Transformation^C](#)

Resell Process^C

IRI <http://w3id.org/CE0N/ontology/process/ResellProcess>

Sub Class Of [processODP:Transformation^C](#)

Reuse Process^C

IRI <http://w3id.org/CE0N/ontology/process/ReuseProcess>

Sub Class Of [processODP:Transformation^C](#)

Sell Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/SellResourceProcess>

Sub Class Of [processODP:Transformation^C](#)

Service Process^C

IRI <http://w3id.org/CE0N/ontology/process/ServiceProcess>

Sub Class Of [processODP:Transformation^C](#)

Share Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/ShareResourceProcess>

Sub Class Of [processODP:Transformation^C](#)

Take Back Process^C

IRI <http://w3id.org/CE0N/ontology/process/TakeBackProcess>

Sub Class Of [processODP:Transformation^C](#)

Transformation^C

IRI <http://w3id.org/CE0N/ontology/processODP/Transformation>

Super Class Of

[AssemblingProcess^C](#)
[BuyResourceProcess^C](#)
[ChangeResourceProcess^C](#)
[ContactProcess^C](#)
[DeconstructionProcess^C](#)
[DisassemblingProcess^C](#)
[DismantleProcess^C](#)
[EnsureClaimProcess^C](#)
[IssuingCertificateProcess^C](#)
[ManufacturingProcess^C](#)
[OffsetProcess^C](#)
[ProductionProcess^C](#)
[RecycleProcess^C](#)
[RefurbishmentProcess^C](#)
[RemoveProcess^C](#)
[RemoveResourceProcess^C](#)
[RepairProcess^C](#)
[ResellProcess^C](#)
[ReuseProcess^C](#)
[SellResourceProcess^C](#)
[ServiceProcess^C](#)
[ShareResourceProcess^C](#)
[TakeBackProcess^C](#)

Resource^C

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

In Range Of [resultingResource^{Op}](#)

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

Object Properties

needs energy^{op}

IRI <http://w3id.org/CE0N/ontology/process/needsEnergy>

Sub Property Of [processODP:hasInput^{op}](#)

Range http://w3id.org/CE0N/ontology/energy/Energy_^c

produces co2^{op}

IRI <http://w3id.org/CE0N/ontology/process/producesCO2>

Sub Property Of [processODP:hasOutput^{op}](#)

Range [CO2Emission](#)^c

resulting resource^{op}

IRI <http://w3id.org/CE0N/ontology/process/resultingResource>

Sub Property Of [processODP:hasOutput^{op}](#)

Range [resourceODP:Resource](#)^c

uses catalyst^{op}

IRI <http://w3id.org/CE0N/ontology/process/usesCatalyst>

Sub Property Of [processODP:hasInput^{op}](#)

Range [Catalyst](#)^c

has input^{op}

IRI <http://w3id.org/CE0N/ontology/processODP/hasInput>

Super Property Of

- [needsEnergy^{op}](#)
- [usesCatalyst^{op}](#)

has output^{op}

IRI <http://w3id.org/CE0N/ontology/processODP/hasOutput>

Super Property Of

- [producesCO2^{op}](#)
- [resultingResource^{op}](#)

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}	
IRI	http://purl.org/dc/terms/description
license ^{ap}	
IRI	http://purl.org/dc/terms/license
title ^{ap}	
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/cannotation-schema.owl#coversRequirements

Namespaces

:

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

dcterms

<http://purl.org/dc/terms/>

odp

<http://www.ontologydesignpatterns.org/schemas/cannotationschema.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