Circular Economy Ontology Network (CEON) - Process Module

Metadata

IRI

`http://w3id.org/CEON/ontology/process/`

Title

Circular Economy Ontology Network (CEON) - Process Module

Publisher

Onto-DESIDE

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Version Iri

http://w3id.org/CEON/ontology/process/0.5/

Version Info

0.5

Prior Version

0.4

Preferred Namespace Prefix

ceon-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^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	TransformationProcess^C

Buy Resource Process^C

IRI	`http://w3id.org/CEON/ontology/process/BuyResourceProcess`
Sub Class Of	processODP:Process

Co2Emission^C

IRI	`http://w3id.org/CEON/ontology/process/CO2Emission`
Sub Class Of	resourceODP:Resource^C
In Range Of	producesCO2^{op}

Catalyst^C

IRI	`http://w3id.org/CEON/ontology/process/Catalyst`
Sub Class Of	resourceODP:Resource^C
In Range Of	usesCatalyst^{op}

Change Resource Process^C

IRI	`http://w3id.org/CEON/ontology/process/ChangeResourceProcess`
Sub Class Of	TransformationProcess^C

Contact Process^C

IRI	`http://w3id.org/CEON/ontology/process/ContactProcess`
Sub Class Of	processODP:Process

Deconstruction Process ^C

IRI `http://w3id.org/CEON/ontology/process/DeconstructionProcess`

Sub Class Of [TransformationProcess](#) ^C

Disassembling Process ^C

IRI `http://w3id.org/CEON/ontology/process/DisassemblingProcess`

Sub Class Of [TransformationProcess](#) ^C

Dismantle Process ^C

IRI `http://w3id.org/CEON/ontology/process/DismantleProcess`

Sub Class Of [TransformationProcess](#) ^C

Ensure Claim Process ^C

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

Sub Class Of [processODP:Process](#)

Issuing Certificate Process ^C

IRI `http://w3id.org/CEON/ontology/process/IssuingCertificateProcess`

Sub Class Of [TransformationProcess](#) ^C

Manufacturing Process ^C

IRI `http://w3id.org/CEON/ontology/process/ManufacturingProcess`

Sub Class Of [TransformationProcess](#) ^C

Offset Process ^C

IRI `http://w3id.org/CEON/ontology/process/OffsetProcess`

Sub Class Of [TransformationProcess](#) ^C

Production Process ^C

IRI `http://w3id.org/CEON/ontology/process/ProductionProcess`

Sub Class Of [TransformationProcess](#) ^C

Recycle Process [C]

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

Sub Class Of TransformationProcess [C]

Refurbishment Process [C]

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

Sub Class Of TransformationProcess [C]

Remove Process [C]

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

Sub Class Of processODP:Process

Remove Resource Process [C]

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

Sub Class Of TransformationProcess [C]

Repair Process [C]

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

Sub Class Of TransformationProcess [C]

Resell Process [C]

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

Sub Class Of processODP:Process

Reuse Process [C]

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

Sub Class Of processODP:Process

Sell Resource Process [C]

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

Sub Class Of processODP:Process

Service Process ^C

IRI	http://w3id.org/CEON/ontology/process/ServiceProcess
Sub Class Of	TransformationProcess ^C

Share Resource Process ^C

IRI	http://w3id.org/CEON/ontology/process/ShareResourceProcess
Sub Class Of	processODP:Process

Take Back Process ^C

IRI	http://w3id.org/CEON/ontology/process/TakeBackProcess
Sub Class Of	processODP:Process

Transformation Process ^C

IRI	http://w3id.org/CEON/ontology/process/TransformationProcess
Is Defined By	ISO 59004:2024 - 3.5.5 process
Description	Set of interrelated or interacting activities that transforms inputs into outputs.
Sub Class Of	processODP:Process
Super Class Of	AssemblingProcess ^C ChangeResourceProcess ^C DeconstructionProcess ^C DisassemblingProcess ^C DismantleProcess ^C IssuingCertificateProcess ^C ManufacturingProcess ^C OffsetProcess ^C ProductionProcess ^C RecycleProcess ^C RefurbishmentProcess ^C RemoveResourceProcess ^C RepairProcess ^C ServiceProcess ^C

Transition ^C

IRI	http://w3id.org/CEON/ontology/process/Transition
Sub Class Of	processODP:Situation
In Domain Of	affectsObject ^{op}

Event ^C

IRI	`http://w3id.org/CEON/ontology/processODP/Event`

Resource ^C

IRI	`http://w3id.org/CEON/ontology/resourceODP/Resource`
In Range Of	resultingResource ^{op}
Super Class Of	http://w3id.org/CEON/ontology/energy/Energy ^C CO2Emission ^C Catalyst ^C

Object Properties

affects object ^{op}

IRI	`http://w3id.org/CEON/ontology/process/affectsObject`
Sub Property Of	processODP:isSettingFor
Domain	Transition ^C

needs energy ^{op}

IRI	`http://w3id.org/CEON/ontology/process/needsEnergy`
Sub Property Of	processODP:hasInput ^{op}
Range	http://w3id.org/CEON/ontology/energy/Energy ^C

produces co2 ^{op}

IRI	`http://w3id.org/CEON/ontology/process/producesCO2`
Sub Property Of	processODP:hasOutput ^{op}
Range	CO2Emission ^C

resulting resource ^{op}

IRI	`http://w3id.org/CEON/ontology/process/resultingResource`
Sub Property Of	processODP:hasOutput ^{op}
Range	resourceODP:Resource ^C

uses catalyst ^{op}

IRI	http://w3id.org/CEON/ontology/process/usesCatalyst
Sub Property Of	processODP:hasInput ^{op}
Range	Catalyst ^c

has input ^{op}

IRI	http://w3id.org/CEON/ontology/processODP/hasInput
Super Property Of	• needsEnergy ^{op} • usesCatalyst ^{op}

has output ^{op}

IRI	http://w3id.org/CEON/ontology/processODP/hasOutput
Super Property Of	• producesCO2 ^{op} • resultingResource ^{op}

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