



COLLABORATION FOR CHANGE

# Case Study: Zero Emission Copper

Embodied CO2e reduction  
(tCO2e)

663

## CATEGORY

PRODUCT	SYSTEM	PROJECT	CONCEPT
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## SUPPLY CHAIN

MANUFACTURING	PROCESSING	TRANSPORTATION	CONSTRUCTION
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## REGION

WA	NT	SA	QLD
NSW	ACT	VIC	TAS

## Profile

Organisation: DevelopmentWA

Website:

<https://developmentwa.com.au/>

About: We are the Western Australian Government's land and development corporation.



## Section 1: Opportunity

DevelopmentWA obtained the Hamilton Senior High School from the State Government to revitalise the area by transforming the old school site into a thriving community called OneOneFive. As the demolition of the old buildings was required DevWA initiated measures to reduce waste and offset CO2.

## Section 2: Solution

The recovered waste materials was stockpiled onsite. The material volumes were recorded during the demolition to maintain the flow of the materials for reuse. The crushing of materials such as bricks, concrete aggregates, tiles, rubble, pavers, and sand occurred onsite and detailed record on fuel.



### **Section 3: Lessons**

The resource recovery OneOneFive has set the benchmark for developmental activities of such kind and requires a holistic approach and commitment to the circular economy.

Clear understanding of the constraints and barriers to be overcome before the execution of the project such as govt. approvals.

### **Section 4 : Impact measurement**

Total material recovered of 10,385 tonnes. Almost 96% (by weight) of the demolition materials were reused and recycled. The total reused material onsite comprises 86% and the material recycled offsite only 10% of the total recycled materials.

1000 fewer truck movements; 662 Tonnes CO<sub>2</sub>e avoided.

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