Instructions for Applicants

User Input Calculated or from other tab Instructions are in yellow boxe This worksheet is used to capture information on Critical Material project proposals. Input data and out the relevant user input (green) cells in the *Project Overview* tab. Data will be extracted from this

| Section | Applicant Information | Input |
|-----------------------|---|-------|
| Project Overview | Applicant Case Number | |
| | Company Name | |
| | City (HQ) | |
| | State (HQ) | |
| | Zip Code (HQ) | |
| | City (Facility) | |
| | State (Facility) | |
| | Zip Code (Facility) | |
| | Qualified Investment (\$) | |
| | Expected Credit Rate | 30% |
| | Tax Credit (\$) | 0 |
| | Project Type | |
| Project/Business Plan | Date Complete Permitting | |
| | Date Begin Construction | |
| | Date Begin Operation | |
| | Is this project being considered or planning to apply to local, state, or other federal agency programs? | |
| | If Yes, briefly explain funding: | |
| Jobs | Direct Construction Jobs | |
| | Meet Wage and Apprenticeship Requirements? | |
| | Direct Operating Jobs | |

es next to the corresponding inputs

assumptions should be substantiated in and show clear correspondence to applicant's project narrative. Applica s workbook to compare submissions. **Therefore, no cells, rows, or columns should be added.**

| Units | Notes |
|----------------|--|
| | The case number used to track the application in the DOE 48C application portal |
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| | Dellar amount of the qualified investment that "re-equips, expands, or establishes" the |
| | in 48C(b). |
| | Applicants should select a 30% tax credit if they anticipate meeting the wage and appre requirements under 48C(e)(5) and (6). Applicants who do not anticipate meeting those i should select 6% from the dropdown. |
| | Calculated by multiplying Qualified Investment by Expected Credit Rate. |
| | |
| mm/dd/yyyy | |
| mm/dd/yyyy | |
| mm/dd/yyyy | |
| | Examples include other federal tax credits, grants from the Department of Energy or oth agencies, and state or local economic development incentives. |
| | |
| FTF equivalent | Quantify the number of direct jobs that will be created during construction of the facility |
| | Do the construction jobs meet wage and apprenticeship requirements, as specificed in 4 guidance? |
| FTE equivalent | Quantify the number of direct jobs that will be created during operation of the facility. F retrofits/reequipped facilities, only include the number of additional operating jobs crea |

nt should first fill

facility, as defined

nticeship requirements

ner federal

y. Direct jobs are 18C(e) and treasury

For ated by the project.

Instructions for Critical Material Processing, Refining, and Recycling

User Input

Calculated or from other tab

Applicant should first fill out the relevant user input (green) cells below. If th multiple production stages (processing refining, recycling), fill in quantity in (be extracted from this workbook to compare submissions. **Therefore, no ce**

Any encourage/discourage recommendation from DOE does not serve as a (indicated with an asterisk) will be included in the Final DOE Critical Materi

| | Materi |
|---|---|
| | Materia |
| Input Type | Input Description |
| | |
| | |
| | Briefly describe input selected e.g. ore, mine tailing, waste stream, concentrate, |
| Select input type (selected primary for virgin materials, and secondary for scraps/end of life materials | scraps (automobile, mixed - shredded, household appliance, new (manufacturing/industrial) scraps etc.) etc |
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| Critical Materials Outputs (Fach applicant MUST fill | | |
|---|--|--|
| Critical Materials Outputs | Processing (tons) | |
| If other material is produced, enter the material and associated amounts after row 78 | | |
| | If the facility performs any processing (converting ore into high-value concentrate e.g., comminution, dewatering, beneficiation), fill out this column with the average annual output tonnage of the metal or element content contained in the concentrate produced. (E.g., If you produce a concentrate that contain multiple recoverable critical materials, please calculate each recoverable material content contained in your concetrate and fill out the annual average amount in each respective material below) | |
| Aluminium | | |
| Antimony | | |
| Arsenic | | |
| Barite | | |
| Beryllium | | |
| Bismuth | | |
| Cerium | | |
| Cesium | | |
| Chromium | | |
| Cobalt | | |
| Dysprosium Electrical Steel* | | |
| Erbium | | |
| | | |

| Fluorine* | |
|--------------|--|
| Fluorspar | |
| Gadolinium | |
| Gallium | |
| Germanium | |
| Hafnium | |
| Holmium | |
| Indium | |
| Iridium | |
| Lanthanum | |
| Lithium | |
| Lutetium | |
| Magnesium | |
| Manganese | |
| Neodymium | |
| Nickel | |
| Nichium | |
| Palladium | |
| Platinum | |
| Proseedymium | |
| Phodium | |
| Rubidium | |
| Ruthonium | |
| Camarium | |
| Scondium | |
| sic* | |
| Tantalum | |
| Tellurium | |
| Terbium | |
| Thulium | |
| Tin | |
| Titanium | |
| Tungsten | |
| Uranium* | |
| Vanadium | |
| Vtterhium | |
| Vttrium | |
| Zinc | |
| Zirconium | |
| | |
| | |
| Other: | |
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Instructions are in yellow boxes next to the corresponding inputs re project is producing multiple critical minerals and or is involved in each relevant mineral and or production stage that is applicable. Data will **Ils, rows, or columns should be added.**

guarantee that: a listed material from the Draft DOE Critical Materials list ials list and that a full application can be based on that material.

| al Input | |
|--|---|
| | |
| Input capacity (tons) | Sourcing |
| For each input , provide the corresponding amount entering the facility. If more than 10 inputs, provide the 10 inputs with largest annual tonnage | For each input briefly describe where it is sourced from (associated geographical region) |
| | |
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| n input table above used to produce these outputs) | | |
|---|--|--|
| Refining (tons) | Recycling Output (tons) | |
| | | |
| If the facility performs any refining at all (converting a concentrate into metal or element e.g., smelting, purifying, reduction), fill out this column with the average annual output tonnage of each respective metal or element produced. | If the facility performs any recycling activities, fill out this column with the average annual output tonnage of the metal or element produced/recovered from the recyling activity. | |
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| Example of How to Fill Out Material Inputs (Examples provided l bel | | | |
|--|--|--|--|
| Input Type | Input Description | | |
| | | | |
| | | | |
| Select input type (selected primary for virgin materials, and secondary for scraps/end of life materials | Briefly describe input selected e.g. ore, mine tailing, waste stream, concentrate, scraps (automobile, mixed - shredded, household appliance, new (manufacturing/industrial) scraps etc.) etc. | | |
| | | | |
| Primary | Bauxite | | |
| Primary | Alumina | | |
| Secondary | Aluminum containing old scraps | | |
| Secondary | Aluminum containing new scraps | | |
| Secondary | Automobile scraps | | |
| Primary | Nickel ore | | |
| Secondary | Nickel containing old scraps | | |
| Secondary | Battery old scraps | | |
| Secondary | Permanent magnets | | |

| Primary | Rare earth element ore |
|---------|------------------------|
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| Critical Materials | Example of How to Fill Out Critical Materials Processing (tons) |
|---------------------------------|--|
| Example of possible projects | If the facility performs any processing (converting ore into high-value concentrate e.g., comminution, dewatering, beneficiation), fill out this column with the average annual output tonnage of the metal or element content contained in the concentrate produced. (E.g., If you produce a concentrate that contain multiple recoverable critical materials, please calculate each recoverable material content contained in your concetrate and fill out the annual average amount in each respective material below) |
| Nickel - Project A | 6,000.00 |
| Nickel - Project B | 6,000.00 |
| Nickel - Project C | |
| Nickel - Project D | 6,000.00 |
| Nickel - Project E | |
| Nickel - Project F | 6,000.00 |

| Neodymium - Project G | 5. |
|------------------------|----|
| Dysprosium - Project G | 0. |
| Cerium - Project G | 0. |
| Cobalt - Project H | |

nere are independent from example provided in the output table ow) Sourcing Input capacity (tons) For each input , provide the corresponding amount entering the facility. If more than 10 inputs, provide the 10 inputs with largest For each input briefly describe where it is sourced from (associated annual tonnage geographical region) 100000 U.S 200000 U.S 200000 U.S 200000 U.S 100000 U.S 100000 Canada 50000 Canada 1000 U.S 1U.S

| 500 | 115 |
|-----|-----|
| | 0.5 |
| | |
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| | |

s Outputs (Examples provided here are independent from examples pr

If the facility performs any refining

at all (converting a concentrate into metal or element e.g., smelting, purifying, reduction), fill out this column with the average annual output tonnage of each respective metal or element produced.

If the facility performs any recycling activities, fill out this column with the average annual output tonnage of the metal or element produced/recovered from the recyling activity.

| 2,500.0 | 6,000.00 |
|---------|----------|
| 2,500.0 | |
| | |
| 2,500.0 | 6,000.00 |
| | 6,000.00 |
| 2,500.0 | |
| | |

| 1.00 |
|--------|
| 0.10 |
| 0.10 |
| 500.00 |

provide in the input table above) Notes

Example of possible scenario of operations

Example of a facility involved all three operations

Example of a facility involved in processing and recycling operation only

Example of a facility involved in refining and recycling operations

Example of a facility involved in recyling and refining operations

Example of a facility involved in recyling operation only Example of a facility involved in processing only

Example of a facility that produce multiple critical materials Example of a facility involved in recycling only