Node: Event-Notary

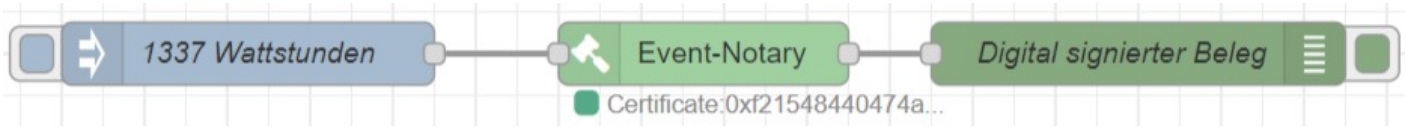
Erstellung von Belegen für den Strombezug basierend auf Ereignissen (Beispiel: Ladevorgang eines E-Auto).



Im Gegensatz zum Node "Metered-Notary", wird beim Event-Notary ein Stromverbrauch in Wattstunden für einen Vorgang als Eingabenachricht erwartet. Das Ergebnis ist ein digital signierter Beleg, des Zertifizierungsdienstes, welcher in der Ausgabenachricht bereitgestellt wird. Zusätzlich wird eine Kopie des Beleges in die GHG Wallet gespeichert.

Beispiel Flow

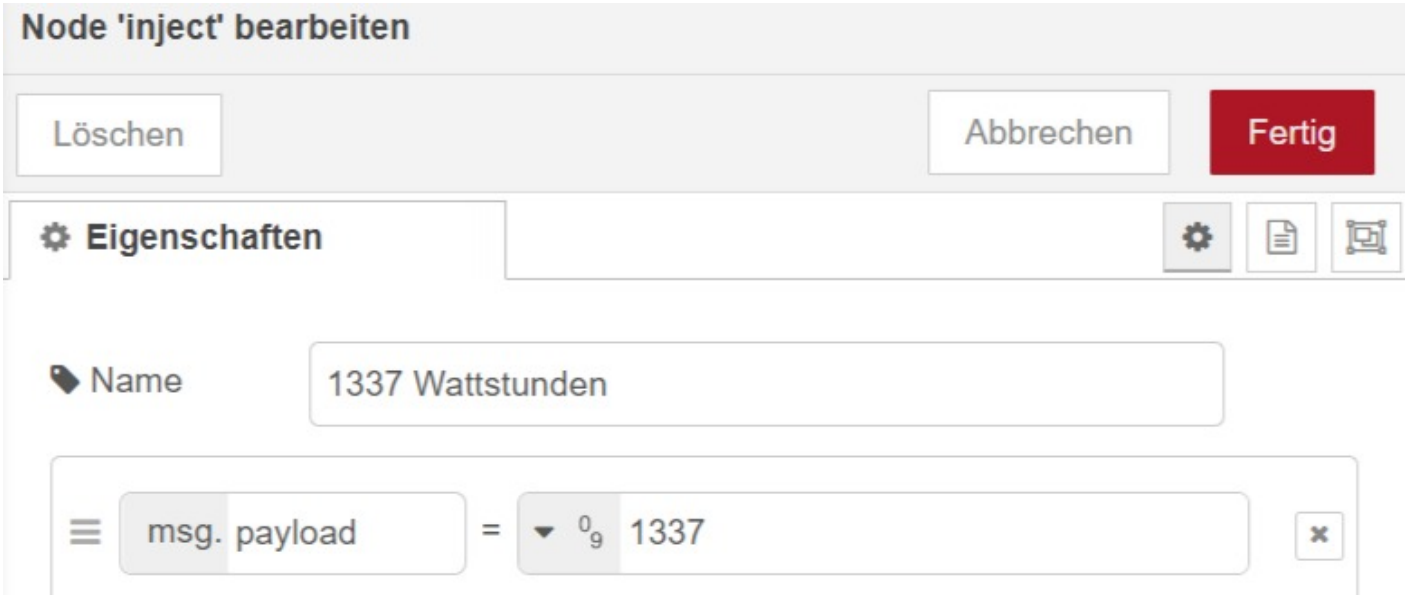
Download: simple_event-notary.flow.json.json



Dem Event-Notar Node wird als `msg.payload` lediglich die Zahl "1337" übergeben. Diese wird als Bezug von 1337 Wattstunden (Wh) Strom angenommen. Der Node sendet in einem ersten Schritt diese Daten an den Zertifizierungsdienst. Optional kann in der Konfiguration des Nodes eine Postleitzahl (Postal Code) angegeben werden, um dem Zertifizierungsdienst einen Hinweis über den Ort des Strombezuges mitzugeben. In einem zweiten Schritt erhält der Node ein Intermediate (=vorläufiger Beleg); überprüft das Intermediate; unterschreibt es und sendet es zum Zertifizierungsdienst. Die Rückantwort des Zertifizierungsdienst wird auf der Ausgabe als `msg.payload` zurückgegeben.

Eine detaillierte Beschreibung der Belegerstellung kann der TyDIDs Blockchain basierte Nachweisführung der THG-Emission und Minderung entnommen werden. Der Node Event-Notary implementiert diesen Prozess.

Eingabe (`msg.payload`)



Ausgabe


```
{
   "hash":{

"signature":"0x85f7460870ca348caf60a94a766521c697b60b5c0a80da10a96b9fe6129903056b62aa5b940788523357974a3adc5e50abf2b690d03c12fe26a517dd7924c3681c",
      "payload":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
   },
   "owner":{

"signature":"0xd73098704a6c8dfed4e6c2977f4b70f2591314fcee1ecbc733466a06788e8e84050a5f03c9fbe11be5b655219d5fcaa0692aead9e6e6d2d4bbb492c302b0e25a1b",
      "payload":{
         "owner":"0x48a2F735c6BC140C15109f5a8AFF8010715D9ddb",
         "issuer":"0xE7Fe0626D7B8e3F2e5ECD146F9b11daac1DBE447",
         "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
      }
   },
   "context":{

"signature":"0xafdb01935aae5a2da5af49db2f723c1649dc8ce92913cc8521a5b587df9e8ba24a9cdd3f54514b1868b15580d0ed21d9530cca623c532c874d4addfdd5934be51c",
      "payload":""
   },
```

```
   "did":{

"signature":"0xa9becd0fc1c99a0b03360f60705c831bc305c1487687aff9925116be71072f386e0c9e89855e1336534081b6d5e74d6970d4a70836737968944ba9d2dea43dae1c",
      "payload":{

"url":"did:ethr:6226:0x3bFCf4Fe3b7D2E2fd079b5Dd546Aa30300D8fBE1:0xf21548440474afb51053CEEb31011d9E4a168D2D",
         "registry":"0x3bFCf4Fe3b7D2E2fd079b5Dd546Aa30300D8fBE1",
         "uid":"0xf21548440474afb51053CEEb31011d9E4a168D2D",
         "schema":"did",
         "method":"ethr:6226",
         "ghgtoken":{
            "address":"0x36AbF05ac533D9Bb2024A2fb00c9e3F52e4F6a50",
            "certificates":"0x65297AFaf11eeAd5258A46e969c2341708e9CC59",
            "savings":"0xc475EcB54601C676Ad008A7857A385a52c445244",
            "emissions":"0xd37B668Ad0417EcD22472ca555a431e84afB40BB"
         },
         "nft":{

"signature":"0x92923d135c6e4bc15bf8d20cd985f990f98fae8ac5ee3b3fc13785c75667b48239c5f888e9fa9cc8f30d775c2f2da97da36d725a77ed81eabdf919657d6bdfbb1c",
            "payload":{
               "address":"0x65297AFaf11eeAd5258A46e969c2341708e9CC59",
               "tx":{
                  "nonce":2199,
                  "gasPrice":{
                     "type":"BigNumber",
                     "hex":"0x03e8"
                  },
                  "gasLimit":{
                     "type":"BigNumber",
                     "hex":"0x039a6c"
                  },
                  "to":"0x36AbF05ac533D9Bb2024A2fb00c9e3F52e4F6a50",
                  "value":{
                     "type":"BigNumber",
                     "hex":"0x00"
                  },
```

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"data":"0xa578e29c0000000000000000000000048a2f735c6bc140c15109f5a8aff8010715d9ddb000000000000
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0000000000000000000a0000000000000000000000000000000000000000000000000000000000000010d00000000
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38443244000000000000000000000000",
                  "chainId": 6226,
                  "v": 12488,
                  "r": "0x35722641759b62ec2879dd41db2736e2c833fa1ab771ce7c57ead9238c1f8e03",
                  "s": "0x15041ad76a387bd30fb3206551ddbbbf6310a311215bf2b1d04d14b912c0099b",
                  "from": "0xE7Fe0626D7B8e3F2e5ECD146F9b11daac1DBE447",
                  "hash": "0xb48af4752575241931521fabce913ee2f38814b79037af3bbf2ce6bd4e658736",
                  "type": null,
                  "confirmations": 0
               },
               "receipt": {
                  "to": "0x36AbF05ac533D9Bb2024A2fb00c9e3F52e4F6a50",
                  "from": "0xE7Fe0626D7B8e3F2e5ECD146F9b11daac1DBE447",
                  "contractAddress": null,
                  "transactionIndex": 0,
                  "gasUsed": {
                     "type": "BigNumber",
                     "hex": "0x038340"
                  },

"logsBloom": "0x0000000000080000000000000000000000020000000000000000000000000000000000000000000
0000000000000000000002008000000000000100040000000000000000000000000800800000000000000000000000
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0000000000000000000000000001000020000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000020000000000000000200000000000000000000000000000000200000000000
0000000010000000000008000001000000000000000000000000000000",

"blockHash": "0x33ddbecb4fe87e13e1b9556aaf92afee7f45b6fa36ab30c5c33b0b7098ba8558",

"transactionHash": "0xb48af4752575241931521fabce913ee2f38814b79037af3bbf2ce6bd4e658736",
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                        "transactionIndex": 0,
                        "blockNumber": 648343,
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"transactionHash":"0xb48af4752575241931521fabce913ee2f38814b79037af3bbf2ce6bd4e658736",
                        "address":"0x65297AFaf11eeAd5258A46e969c2341708e9CC59",
                        "topics":[

"0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef",

"0x0000000000000000000000000000000000000000000000000000000000000000",

"0x000000000000000000000048a2f735c6bc140c15109f5a8aff8010715d9ddb",

"0x0000000000000000000000000000000000000000000000000000000000000457"
                        ],
                        "data":"0x",
                        "logIndex":0,

"blockHash":"0x33ddbecb4fe87e13e1b9556aaf92afee7f45b6fa36ab30c5c33b0b7098ba8558"
                    },
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                        "transactionIndex":0,
                        "blockNumber":648343,

"transactionHash":"0xb48af4752575241931521fabce913ee2f38814b79037af3bbf2ce6bd4e658736",
                        "address":"0xc475EcB54601C676Ad008A7857A385a52c445244",
                        "topics":[

"0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef",

"0x0000000000000000000000000000000000000000000000000000000000000000",

"0x000000000000000000000000f21548440474afb51053ceeb31011d9e4a168d2d"
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                        "transactionIndex":0,
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                        "topics":[

"0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef",

"0x0000000000000000000000000000000000000000000000000000000000000000",

"0x000000000000000000000000f21548440474afb51053ceeb31011d9e4a168d2d"
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"blockHash":"0x33ddbecb4fe87e13e1b9556aaf92afee7f45b6fa36ab30c5c33b0b7098ba8558"
                     }
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                  "confirmations":1,
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                     "hex":"0x038340"
                  },
                  "effectiveGasPrice":{
                     "type":"BigNumber",
                     "hex":"0x03e8"
                  },
                  "status":1,
                  "type":0,
                  "byzantium":true
               },
               "tokenId":"0x0000000000000000000000000000000000000000000000000000000000000457"
            }
         },
         "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
      }
   },
   "metering":{
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"signature":"0xff554124da0b612bf4826f9fff3472b5e8636fb3f35cbdac20e2989b0fcbc6ba5012bcfb20f7e91
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      "payload":{
         "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
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   },
   "presentations":{
      "type":{

"signature":"0xa6c27697b4f526292c5728d12f28d3f41d4dd278a1e134193332b5b1f25a133b42c94d06911a81a
250df0c3c11a5ed0454f6a9ede14807eb967b563ea2c1e94f1b",
         "payload":"electricity consumption from public grid",
         "$schema":"https://schema.corrently.io/tydids/type"
      },
      "context":{

"signature":"0xafdb01935aae5a2da5af49db2f723c1649dc8ce92913cc8521a5b587df9e8ba24a9cdd3f54514b1
868b15580d0ed21d9530cca623c532c874d4addfdd5934be51c",
         "payload":"",
         "$schema":"https://schema.corrently.io/tydids/context"
      },
      "location":{

"signature":"0xdb8491a4dc3a9e2d90821f5de30781c744e568386ba0732a7fec6d2c75e6f308216c2c30b82b3a6
301c06a1b7eb780c7447bf80152febef0ab361f6975428db11c",
         "payload":{
            "zip":"00000",
            "city":"Landesweit (national)",
            "country":"Germany",
            "meloid":"DETESTSD13371337133713371337133713371337",
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         "$schema":"https://schema.corrently.io/tydids/location"
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            "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
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         "$schema":"https://schema.currently.io/tydids/metering"
      },
      "consumption":{

"signature":"0x6dbebebcb5aaeeb93cb9684b975f034d051e88669d7ce429237b75f3ee3b1de06c5ed3a2d3eca375f8338eff5cb0e8d14f1dc24faf2cf787d04b65993286cb1c1b",
         "payload":{
            "unit":"wh",
            "actual":1337,
            "time":1673220421200,
            "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
         },
         "$schema":"https://schema.currently.io/tydids/consumption"
      },
      "ghg":{

"signature":"0x7b7636b91814e44a859eeac0d2a891d5d007d5930ee01f416607ce5da39fd925248d2b24649ad22cc6a2d496023b1fc04e06198fa901fa200696fa7664333b911c",
         "payload":{
            "factors":{
               "unit":"g co2eq per wh",
               "actual":{
                  "grid":0.201,
                  "eco":0.201
               },
               "base":{
                  "grid":0.436
               }
            },
            "base":{
               "unit":"g co2eq",
               "grid":583
            },
            "actual":{
               "unit":"g co2eq",
               "grid":269,
               "eco":269
            },
```

```
            "saving":{
               "unit":"g co2eq",
               "grid":314
            },
            "scope":2,
            "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
         },
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      },
      "did":{

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         "payload":{

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            "registry":"0x3bFCf4Fe3b7D2E2fd079b5Dd546Aa30300D8fBE1",
            "uid":"0xf21548440474afb51053CEEb31011d9E4a168D2D",
            "schema":"did",
            "method":"ethr:6226",
            "ghgtoken":{
               "address":"0x36AbF05ac533D9Bb2024A2fb00c9e3F52e4F6a50",
               "certificates":"0x65297AFaf11eeAd5258A46e969c2341708e9CC59",
               "savings":"0xc475EcB54601C676Ad008A7857A385a52c445244",
               "emissions":"0xd37B668Ad0417EcD22472ca555a431e84afB40BB"
            },
            "nft":{

"signature":"0x92923d135c6e4bc15bf8d20cd985f990f98fae8ac5ee3b3fc13785c75667b48239c5f888e9fa9cc8f30d775c2f2da97da36d725a77ed81eabdf919657d6bdfbb1c",
               "payload":{
                  "address":"0x65297AFaf11eeAd5258A46e969c2341708e9CC59",
                  "tx":{
                     "nonce":2199,
                     "gasPrice":{
                        "type":"BigNumber",
                        "hex":"0x03e8"
                     },
                     "gasLimit":{
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```
                        "type":"BigNumber",
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                     },
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                     "value":{
                        "type":"BigNumber",
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"data":"0xa578e29c0000000000000000000000048a2f735c6bc140c15109f5a8aff8010715d9ddb000000000000
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38443244000000000000000000000000",
                     "chainId":6226,
                     "v":12488,
                     "r":"0x35722641759b62ec2879dd41db2736e2c833fa1ab771ce7c57ead9238c1f8e03",
                     "s":"0x15041ad76a387bd30fb3206551ddbbbf6310a311215bf2b1d04d14b912c0099b",
                     "from":"0xE7Fe0626D7B8e3F2e5ECD146F9b11daac1DBE447",

"hash":"0xb48af4752575241931521fabce913ee2f38814b79037af3bbf2ce6bd4e658736",
                     "type":null,
                     "confirmations":0
                  },
                  "receipt":{
                     "to":"0x36AbF05ac533D9Bb2024A2fb00c9e3F52e4F6a50",
                     "from":"0xE7Fe0626D7B8e3F2e5ECD146F9b11daac1DBE447",
                     "contractAddress":null,
                     "transactionIndex":0,
                     "gasUsed":{
                        "type":"BigNumber",
                        "hex":"0x038340"
                     },

"logsBloom":"0x00000000000080000000000000000000000020000000000000000000000000000000000000000
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                          "transactionIndex":0,
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                          "topics":[

"0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef",

"0x0000000000000000000000000000000000000000000000000000000000000000",

"0x000000000000000000000048a2f735c6bc140c15109f5a8aff8010715d9ddb",

"0x0000000000000000000000000000000000000000000000000000000000000457"
                          ],
                          "data":"0x",
                          "logIndex":0,

"blockHash":"0x33ddbecb4fe87e13e1b9556aaf92afee7f45b6fa36ab30c5c33b0b7098ba8558"
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                          "address":"0xc475EcB54601C676Ad008A7857A385a52c445244",
                          "topics":[

"0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef",

"0x0000000000000000000000000000000000000000000000000000000000000000",
```

```
"0x000000000000000000000000f21548440474afb51053ceeb31011d9e4a168d2d"
                            ],

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                            "logIndex":1,

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                         {
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                            "blockNumber":648343,

"transactionHash":"0xb48af4752575241931521fabce913ee2f38814b79037af3bbf2ce6bd4e658736",
                            "address":"0xd37B668Ad0417EcD22472ca555a431e84afB40BB",
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"0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef",

"0x0000000000000000000000000000000000000000000000000000000000000000",

"0x000000000000000000000000f21548440474afb51053ceeb31011d9e4a168d2d"
                            ],

"data":"0x000000000000000000000000000000000000000000000000000000000000010d",
                            "logIndex":2,

"blockHash":"0x33ddbecb4fe87e13e1b9556aaf92afee7f45b6fa36ab30c5c33b0b7098ba8558"
                         }
                      ],
                      "blockNumber":648343,
                      "confirmations":1,
                      "cumulativeGasUsed":{
                         "type":"BigNumber",
                         "hex":"0x038340"
                      },
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                         "type":"BigNumber",
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                      "status":1,
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```
                    "type": 0,
                    "byzantium": true
                },

"tokenId":"0x0000000000000000000000000000000000000000000000000000000000000457"
            }
        },
        "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
      },
      "$schema":"https://schema.corrently.io/tydids/did"
    },
    "_all":{

"signature":"0x8999c3c3c95f8d010691499f336243cc076af36385ed72af331099363bd6717438b845c8db6c9cb
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      "payload":{
        "type":"electricity consumption from public grid",
        "context":"",
        "location":{
          "zip":"00000",
          "city":"Landesweit (national)",
          "country":"Germany",
          "meloid":"DETESTSD13371337133713371337133713371337",
          "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
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        "consumption":{
          "unit":"wh",
          "actual":1337,
          "time":1673220421200,
          "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
        },
        "ghg":{
          "factors":{
            "unit":"g co2eq per wh",
            "actual":{
              "grid":0.201,
              "eco":0.201
```

```
                },
                "base":{
                   "grid":0.436
                }
             },
             "base":{
                "unit":"g co2eq",
                "grid":583
             },
             "actual":{
                "unit":"g co2eq",
                "grid":269,
                "eco":269
             },
             "saving":{
                "unit":"g co2eq",
                "grid":314
             },
             "scope":2,
             "hash":"0xd90d0978039c34f955e0813af6c3f853ab43a891e508a3517a1c7c3929531be6"
          },
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          "_iss":"0xE7Fe0626D7B8e3F2e5ECD146F9b11daac1DBE447",
          "_jti":"0xf21548440474afb51053CEEb31011d9E4a168D2D",
          "did":{

"url":"did:ethr:6226:0x3bFCf4Fe3b7D2E2fd079b5Dd546Aa30300D8fBE1:0xf21548440474afb51053CEEb31011d9E4a168D2D",
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             "schema":"did",
             "method":"ethr:6226",
             "ghgtoken":{
                "address":"0x36AbF05ac533D9Bb2024A2fb00c9e3F52e4F6a50",
                "certificates":"0x65297AFaf11eeAd5258A46e969c2341708e9CC59",
                "savings":"0xc475EcB54601C676Ad008A7857A385a52c445244",
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             },
             "nft":{
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"signature":"0x92923d135c6e4bc15bf8d20cd985f990f98fae8ac5ee3b3fc13785c75667b48239c5f888e9fa9cc
8f30d775c2f2da97da36d725a77ed81eabdf919657d6bdfbb1c",
                  "payload":{
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                     "tx":{
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                        "gasPrice":{
                           "type":"BigNumber",
                           "hex":"0x03e8"
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                        "to":"0x36AbF05ac533D9Bb2024A2fb00c9e3F52e4F6a50",
                        "value":{
                           "type":"BigNumber",
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"s":"0x15041ad76a387bd30fb3206551ddbbbf6310a311215bf2b1d04d14b912c0099b",
                        "from":"0xE7Fe0626D7B8e3F2e5ECD146F9b11daac1DBE447",

"hash":"0xb48af4752575241931521fabce913ee2f38814b79037af3bbf2ce6bd4e658736",
                        "type":null,
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                     "receipt":{
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                        "to":"0x36AbF05ac533D9Bb2024A2fb00c9e3F52e4F6a50",
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                        "contractAddress":null,
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                        "gasUsed":{
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"logsBloom":"0x00000000000080000000000000000000000020000000000000000000000
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"0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef",

"0x0000000000000000000000000000000000000000000000000000000000000000",

"0x000000000000000000000000f21548440474afb51053ceeb31011d9e4a168d2d"
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"0x0000000000000000000000000000000000000000000000000000000000000000",

"0x000000000000000000000000f21548440474afb51053ceeb31011d9e4a168d2d"
                               ],

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                        "hex": "0x03e8"
                    },
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                    "type": 0,
                    "byzantium": true
                },

"tokenId": "0x0000000000000000000000000000000000000000000000000000000000000457"
                }
            },
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        }
    },
    "$schema": "https://schema.corrently.io/tydids/_all"
  }
 }
}
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Quellcode der Implementierung

Revision #3
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