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Kwik Surveys

## Survey Invitations

| | |
|---|---|
| Invitations Sent: | **0** |
| Invitations Accepted: | **0** |
| Untracked Responses: | **307** |
| Total Responses Received: | **307** |

View invitations & send reminders

## Results Filtering

**Select** No Filtering

**Add Filter**

## Question 1

**What building energy simulation programs do you know well? (choose one or more)**

| | | |
|---|---|---|
| DesignBuilder | 42 | 6% |
| DOE-2.1e | 55 | 8% |
| DOE-2.2 | 59 | 8% |
| ECOTECT | 37 | 5% |
| Energy-10 | 12 | 2% |
| EnergyGauge | 2 | 0% |
| EnergyPlus | 89 | 12% |
| EnergyPro | 13 | 2% |
| eQUEST | 125 | 17% |
| ESP-r | 28 | 4% |
| Green Building Studio | 12 | 2% |
| HAP | 25 | 3% |
| HEVACOMP | 5 | 1% |
| IDA Indoor Climate and Energy | 4 | 1% |
| IES Virtual Environment | 33 | 5% |
| System Analyzer | 6 | 1% |
| TAS | 7 | 1% |
| TRACE | 54 | 7% |
| TRNSYS | 55 | 8% |
| VisualDOE | 34 | 5% |

| | | |
|---|---|---|
| Other (please enter in comment box) | 32 | 4% |

| ID | Comments | View Survey |
|---|---|---|
| 1471472 | WUFI Plus | View |
| 1481067 | BSim (Danish) VELUX Energy and Indoor Climate Visualizer | View |
| 1485522 | PowerDomus | View |
| 1485559 | EE4 VERSION 1.7 | View |
| 1485567 | RADIANCE | View |
| 1485584 | EE4 (Canadian version) of DOE 2.1e and RETScreen | View |
| 1485989 | EE4 | View |
| 1486097 | SIMIEN - Norwegian program | View |
| 1486461 | Radiance | View |
| 1491166 | I also used EFFEn, window 5, Daylight | View |

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# Question 2

**What other building energy simulation programs have you used? (choose one or more)**

| | | |
|---|---|---|
| DesignBuilder | 45 | 7% |
| DOE-2.1e | 22 | 3% |
| DOE-2.2 | 23 | 3% |
| ECOTECT | 63 | 9% |
| Energy-10 | 28 | 4% |
| EnergyGauge | 10 | 1% |
| EnergyPlus | 99 | 14% |
| EnergyPro | 25 | 4% |
| eQUEST | 73 | 11% |
| ESP-r | 30 | 4% |
| Green Building Studio | 23 | 3% |
| HAP | 30 | 4% |
| HEVACOMP | 7 | 1% |
| IDA Indoor Climate and Energy | 9 | 1% |
| IES Virtual Environment | 38 | 6% |
| System Analyzer | 13 | 2% |
| TAS | 13 | 2% |
| TRACE | 49 | 7% |
| TRNSYS | 47 | 7% |
| VisualDOE | 27 | 4% |
| Other (please enter in comment box) | 11 | 2% |

| ID | Comments | View Survey |
|---|---|---|
| 1447059 | Wrote my own load analysis spreadsheets | View |
| 1447102 | HEED | View |
| 1450901 | EFEN COMFEN WINDOW OPTIC RADIANCE | View |
| 1451336 | kapsol | View |
| 1453555 | BLAST | View |
| 1471472 | WUFI Plus | View |
| 1485522 | CODYBA | View |
| 1485621 | ASEAM | View |
| 1490903 | Dymola/Modelica | View |
| 1492142 | long ago and far away... | View |

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# Question 3

**Why do you use building energy simulation? (choose one or more)**

| | | |
|---|---|---|
| Code compliance | 92 | 7% |
| Conceptual design | 155 | 12% |
| Building massing studies | 92 | 7% |
| Choosing envelope options | 168 | 13% |
| Choosing lighting options | 90 | 7% |
| Choosing HVAC options | 171 | 14% |
| LEED EA Credit 1 | 156 | 12% |
| EPACT tax deduction | 41 | 3% |
| Savings By Design | 106 | 8% |
| Retrofit/renovation | 115 | 9% |
| Other (please describe in comment box) | 65 | 5% |

| ID | Comments | View Survey |
|---|---|---|
| 1485621 | Oregon's SEED program, Oregon's Business Energy Tax Credits, Washington's ELCCA, to meet energy requirements of utilities. | View |
| 1485673 | State incentive programs | View |
| 1486436 | Detailed energy audits | View |
| 1486588 | Research, education | View |
| 1486860 | Passive design | View |
| 1488740 | research | View |
| 1491883 | Research | View |
| 1492142 | M & V | View |
| 1492956 | Evaluating building controls strategies | View |
| 1492965 | R&D | View |

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# Question 4

**How many years have you been using building energy simulation software? (choose one)**

| | | |
|---|---|---|
| 1 to 2 | 78 | 26% |
| 3 to 5 | 107 | 35% |
| 6 to 10 | 51 | 17% |
| 11 to 20 | 45 | 15% |
| More than 20 | 22 | 7% |

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# Question 5

**What programming languages do you know well?**

| | | |
|---|---|---|
| Actionscript | 2 | 0% |
| ABAP | 1 | 0% |
| Ada | 0 | 0% |
| Assembly | 2 | 0% |
| Awk | 11 | 2% |
| C | 43 | 8% |
| C# | 12 | 2% |
| C++ | 42 | 8% |
| Cobol | 4 | 1% |
| ColdFusion | 0 | 0% |
| D | 0 | 0% |
| Delphi | 7 | 1% |
| Erlang | 0 | 0% |
| Forth | 0 | 0% |
| Fortran | 81 | 15% |
| Go | 0 | 0% |
| Haskell | 0 | 0% |
| Java | 10 | 2% |
| JavaScript | 11 | 2% |
| Lisp | 4 | 1% |
| Lua | 2 | 0% |
| MATLAB | 43 | 8% |
| Objective C | 1 | 0% |
| OCaml | 0 | 0% |

| | | |
|---|---|---|
| PHP | 8 | 1% |
| Pascal | 13 | 2% |
| Perl | 12 | 2% |
| PL/SQL | 1 | 0% |
| Python | 6 | 1% |
| Rexx | 0 | 0% |
| Ruby | 4 | 1% |
| SAS | 0 | 0% |
| Scala | 1 | 0% |
| SQL | 14 | 3% |
| Scratch | 0 | 0% |
| Scheme | 1 | 0% |
| Shell | 7 | 1% |
| Smalltalk | 0 | 0% |
| Tcl | 3 | 1% |
| Visual Basic | 50 | 9% |
| VBA | 43 | 8% |
| Other (please put name in comment box) | 8 | 1% |
| None | 105 | 19% |

| ID | Comments | View Survey |
|---|---|---|
| 1446579 | None | View |
| 1447102 | Realbasic | View |
| 1447725 | I learn Qbasic back in my undergraduate but I'm learning Fortran | View |
| 1448387 | modelica | View |
| 1450518 | excel basic | View |
| 1450599 | Modelica | View |
| 1466231 | None now, formerly Fortran, Pascal, basic. I have others program for me and they use SAS, VBA, C#, SQL, .NET, ColdFusion. For data analysis we use SAS & Access-Excel+VBA | View |
| 1466543 | I know VBA well enough to write simple macro's. | View |
| 1471472 | Maple Maxima | View |
| 1491166 | quick basic, Fortran | View |

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# Question 6

**What other programming languages have you used?**

| | | |
|---|---|---|
| Actionscript | 0 | 0% |
| ABAP | 0 | 0% |
| Ada | 1 | 0% |

| | | |
|---|---|---|
| Assembly | 9 | 1% |
| Awk | 8 | 1% |
| C | 33 | 5% |
| C# | 7 | 1% |
| C++ | 77 | 12% |
| Cobol | 2 | 0% |
| ColdFusion | 3 | 0% |
| D | 1 | 0% |
| Delphi | 7 | 1% |
| Erlang | 0 | 0% |
| Forth | 1 | 0% |
| Fortran | 67 | 10% |
| Go | 0 | 0% |
| Haskell | 0 | 0% |
| Java | 27 | 4% |
| JavaScript | 21 | 3% |
| Lisp | 13 | 2% |
| Lua | 1 | 0% |
| MATLAB | 64 | 10% |
| Objective C | 2 | 0% |
| OCaml | 0 | 0% |
| PHP | 14 | 2% |
| Pascal | 30 | 5% |
| Perl | 22 | 3% |
| PL/SQL | 2 | 0% |
| Python | 19 | 3% |
| Rexx | 0 | 0% |
| Ruby | 13 | 2% |
| SAS | 3 | 0% |
| Scala | 0 | 0% |
| SQL | 21 | 3% |
| Scratch | 1 | 0% |
| Scheme | 2 | 0% |
| Shell | 12 | 2% |
| Smalltalk | 1 | 0% |
| Tcl | 5 | 1% |
| Visual Basic | 77 | 12% |
| VBA | 33 | 5% |

| | | |
|---|---|---|
| Other (please put name in comment box) | 8 | 1% |
| None | 58 | 9% |

| ID | Comments | View Survey |
|---|---|---|
| 1444738 | written models using NMF | View |
| 1445700 | Very familiar with Fortan 90 | View |
| 1445881 | AutoLISP (AutoCAD's Lisp ... some years ago!) | View |
| 1446579 | 1974 college | View |
| 1453614 | ladder logic | View |
| 1458307 | EES | View |
| 1469535 | APL | View |
| 1471472 | Maple Maxima | View |
| 1491166 | quick basic | View |
| 1492142 | once again, long ago and fara away... | View |

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# Question 7

**What kind of contribution would you be willing to make toward an open-source project related to building energy simulation?**

| | | |
|---|---|---|
| Programming | 55 | 9% |
| Testing | 164 | 26% |
| Documentation | 64 | 10% |
| Web design | 11 | 2% |
| Engineering research | 108 | 17% |
| Funding | 8 | 1% |
| Use the software | 202 | 31% |
| No thanks | 30 | 5% |

| ID | Comments | View Survey |
|---|---|---|
| 1445881 | Of course, my involvement would depend on the size, scope and community involvement in the project. There are already open source (GPL) energy simulation cores available that I'm involved with (i.e., ESP-r). There is a void in open source GUIs. | View |
| 1445903 | I would want to know more about the effort before considering a contribution. | View |
| 1448029 | case studies | View |
| 1448796 | Not just any open-source project. | View |
| 1451717 | Although willing to do the above, avaiolable time is limited (I cannot do ALL, or do them in a hurry) | View |
| 1466231 | No time to spend on this, and we already get good support from eQUEST/DOE2.2 folks, so I can't really see the need for this. | View |
| 1485621 | I might use the software if it was easy to learn and if I learned it well I might provide training in it. | View |
| 1485673 | Limited availability to contribute but may be able to help. | View |

| | | |
|---|---|---|
| 1489430 | I've done a lot of DOE2.1E function writing, and post-processing. I'm not sure if my current company would be willing to share, but I would. | View |
| 1492142 | not sure... | View |

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# Question 8

**What kind of open-source project would be most valuable to you?**

| | | |
|---|---|---|
| New simulation engine | 58 | 9% |
| Adding functionality to an existing simulation program | 197 | 30% |
| Graphical user interface for a simulation program | 181 | 28% |
| Web based interface for a simulation program | 49 | 8% |
| Parametric utility for a simulation program | 100 | 15% |
| Other utilities for existing simulation programs | 65 | 10% |

| ID | Please write in any other ideas | View Survey |
|---|---|---|
| 1471905 | Coupling of existing programs | View |
| 1472431 | Adding additional system types such as a chiller heater and passive chilled beam systems. The workarounds just don't provide good results. | View |
| 1481067 | Easy comparison of results | View |
| 1485489 | Baseline / reference model ruleset utilities could have tremendous value to industry | View |
| 1485584 | Linking RETScreen (an Excel based energy spreadsheet to E-Quest | View |
| 1485613 | Improve the connection between EnergyPlus and OpenStudio | View |
| 1485625 | testing conceptual design | View |
| 1485938 | interoperability (data/model sharing) between existing simulation programs. | View |
| 1486540 | - Quality control of existing open source simulation program. - Streamlining input of existing open source simulation program. - Homogenisation of input of existing open source simulation program | View |
| 1492956 | I think that creating a usable graphical user interface for the full functionality of EnergyPlus would be the most useful and feasible project at this point in time. The user interface can have some pre-processing functionality to help streamline model runtimes. | View |

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